



Dual Induction Log

Pioneer Energy Services

API No.

15-171-21,073-00-00

Company Murfin Drilling Company, Inc.

Well DAMW #1-11

Field Wildcat

County Scott State Kansas

Location 2305' FSL & 990' FEL

Other Services
CNL/CDL
MEL/BHCS

Sec: 11 Twp: 17S Rge: 33W

Elevation

Permanent Datum Ground Level Elevation 3007
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 3018
D.F.
G.L. 3007

Date 12/9/2014

Run Number One

Depth Driller 4818

Depth Logger 4815

Bottom Logged Interval 4814

Top Log Interval 00

Casing Driller 8.625 @ 253

Casing Logger 257

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5800

Density / Viscosity 9.2 55

pH / Fluid Loss 10.0 7.2

Source of Sample Flowline

Rm @ Meas. Temp 0.65 @ 60

Rmf @ Meas. Temp 0.49 @ 60

Rmc @ Meas. Temp 0.88 @ 60

Source of Rmf / Rmc Charts

Rm @ BHT 0.31 @ 124

Operating Rig Time 5 1/2 Hours

Max Rec. Temp. F 124

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Larry Nicholson

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

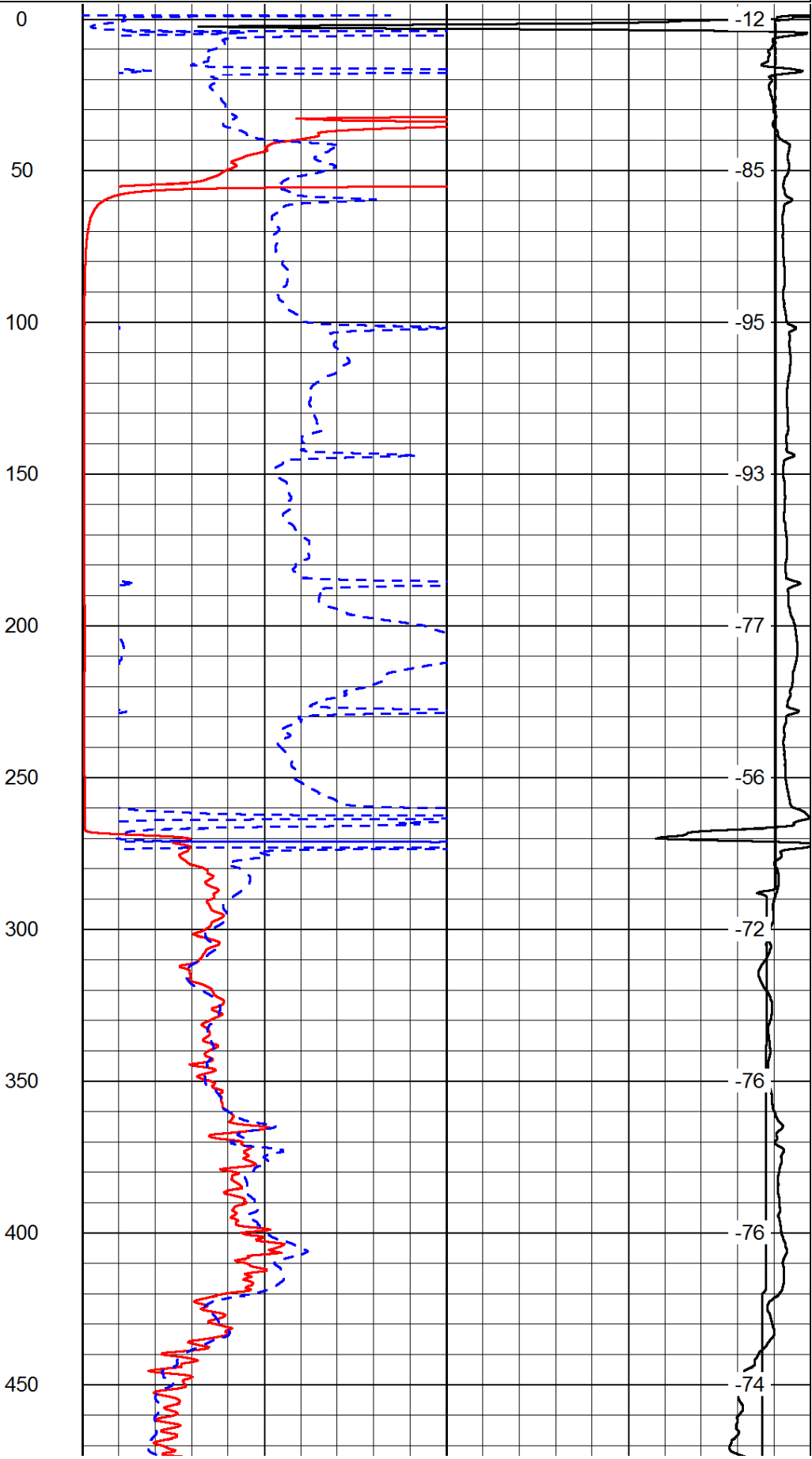
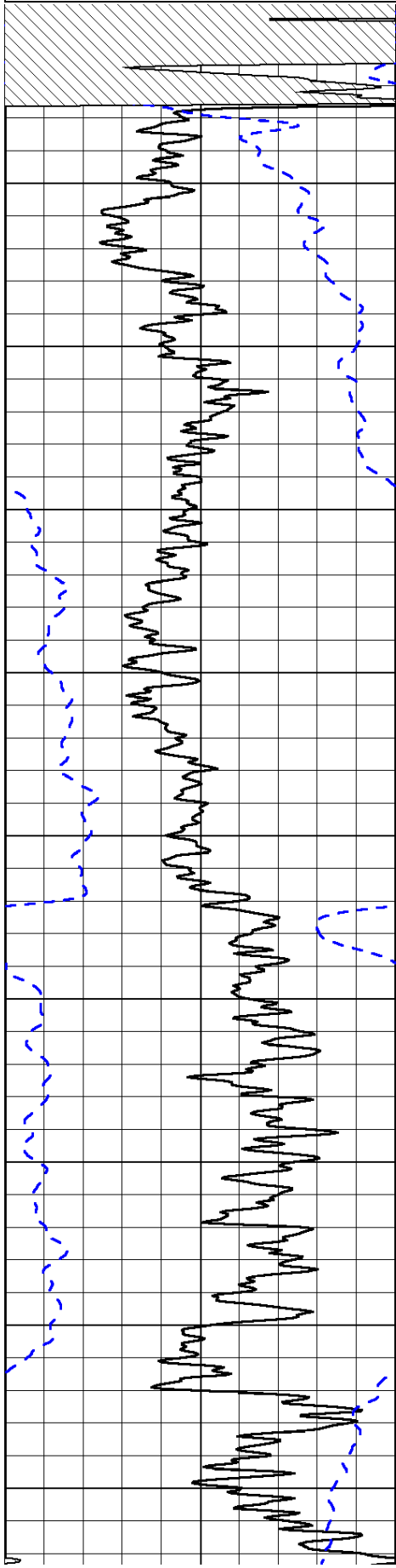
Scott City KS, 8 North to HWY 4,
1 West, 1/2 South, West and North Into

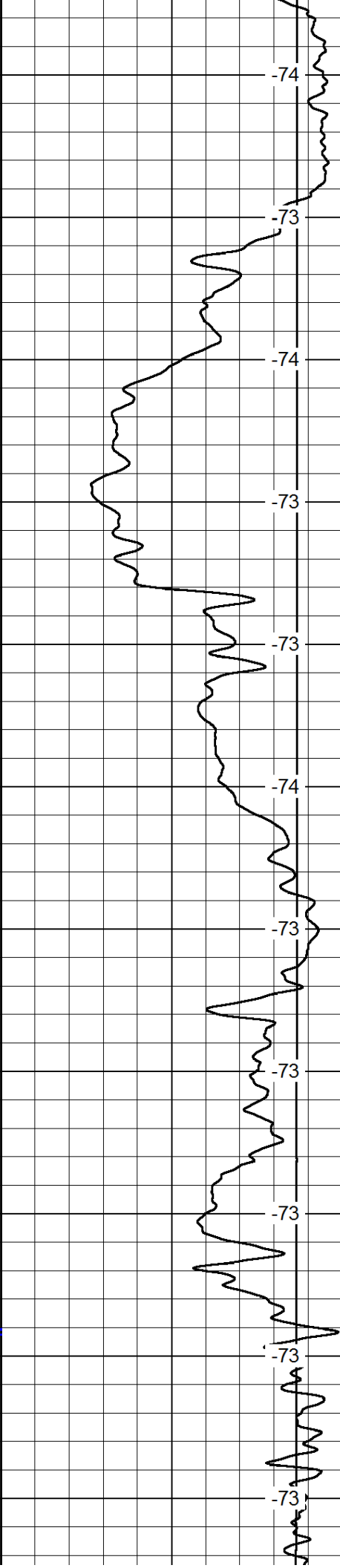
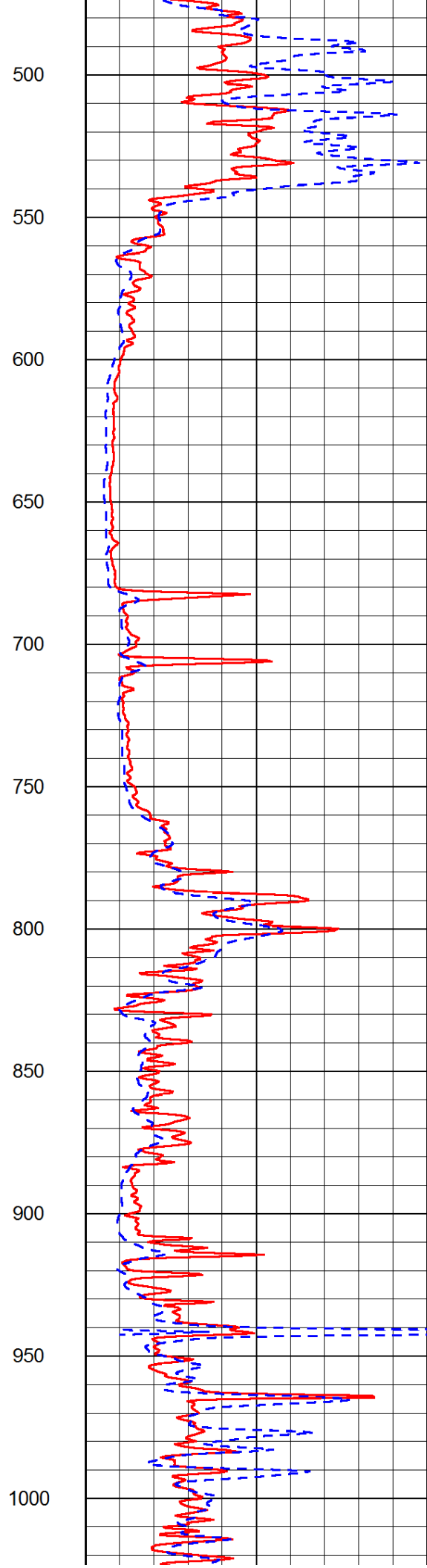
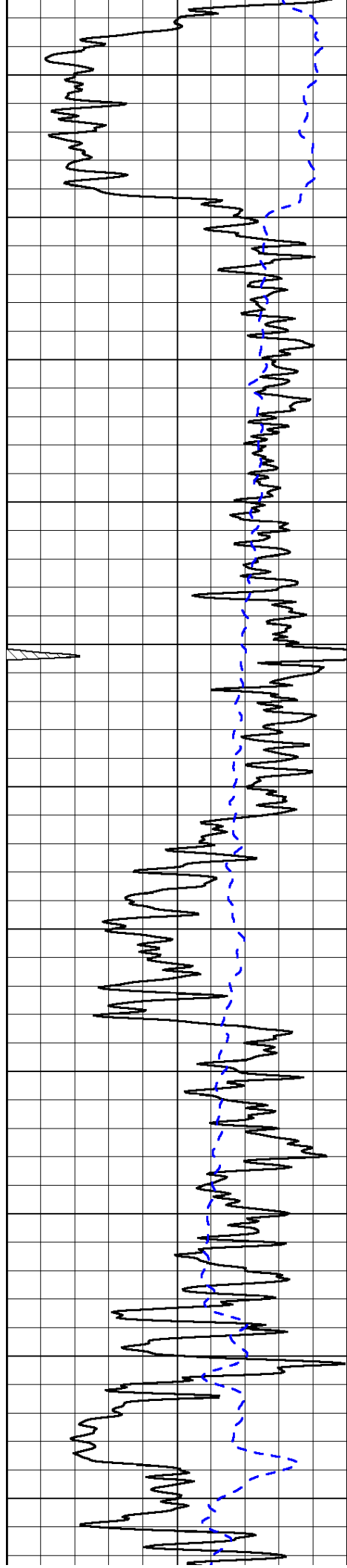
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Dataset Pathname: DIL\murstk
Presentation Format: dil2in
Dataset Creation: Tue Dec 09 20:27:36 2014
Charted by: Depth in Feet scaled 1:600

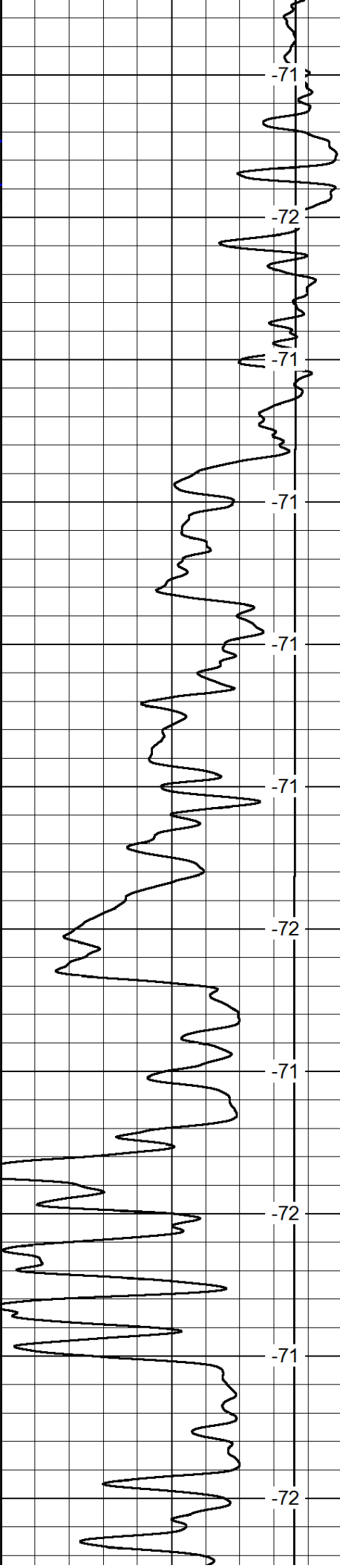
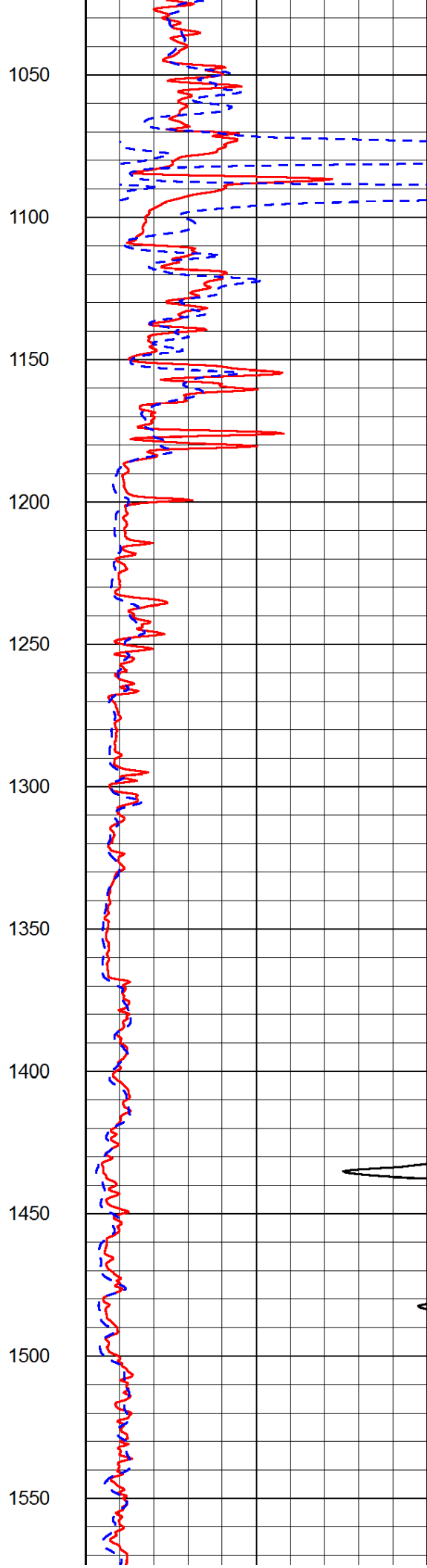
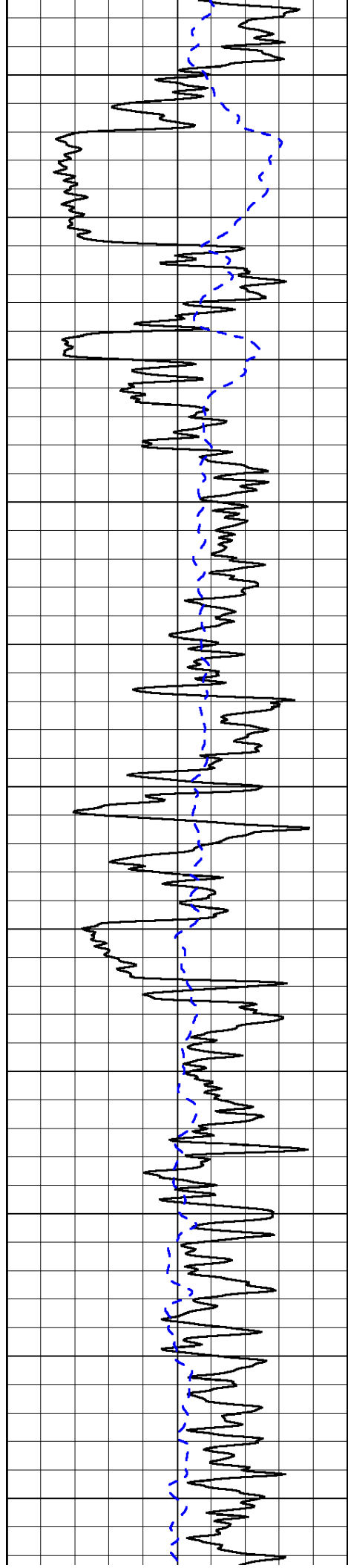
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-200	SP (mV)	0

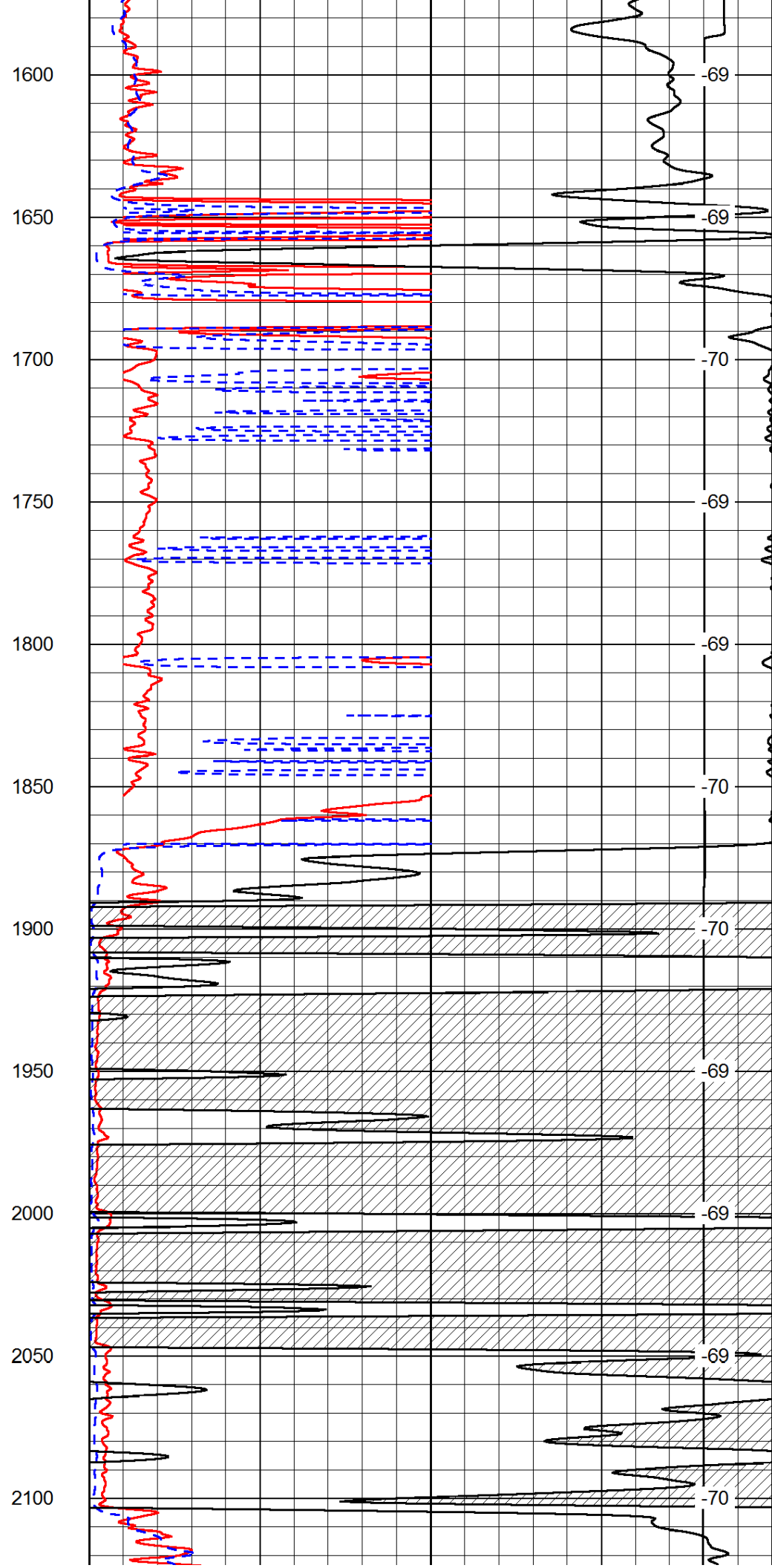
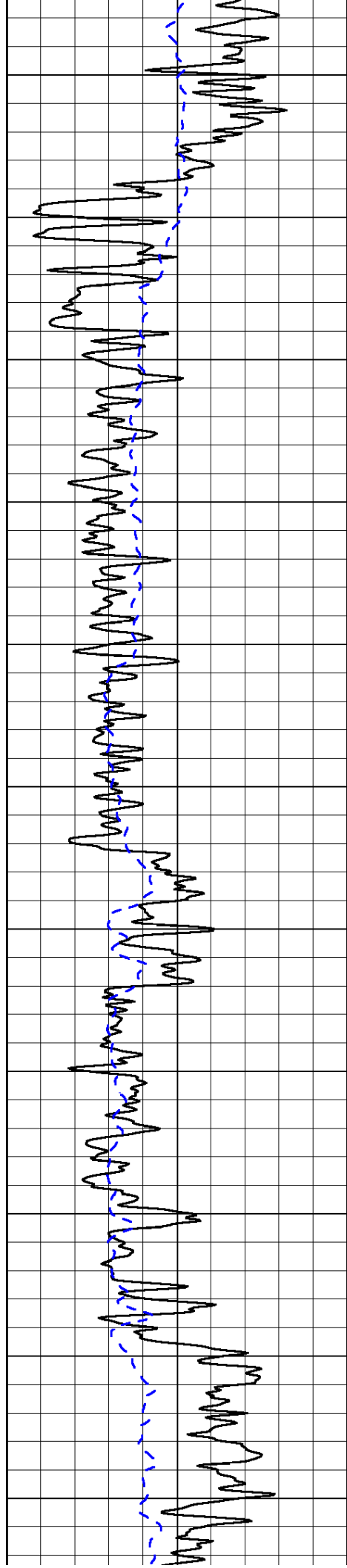
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

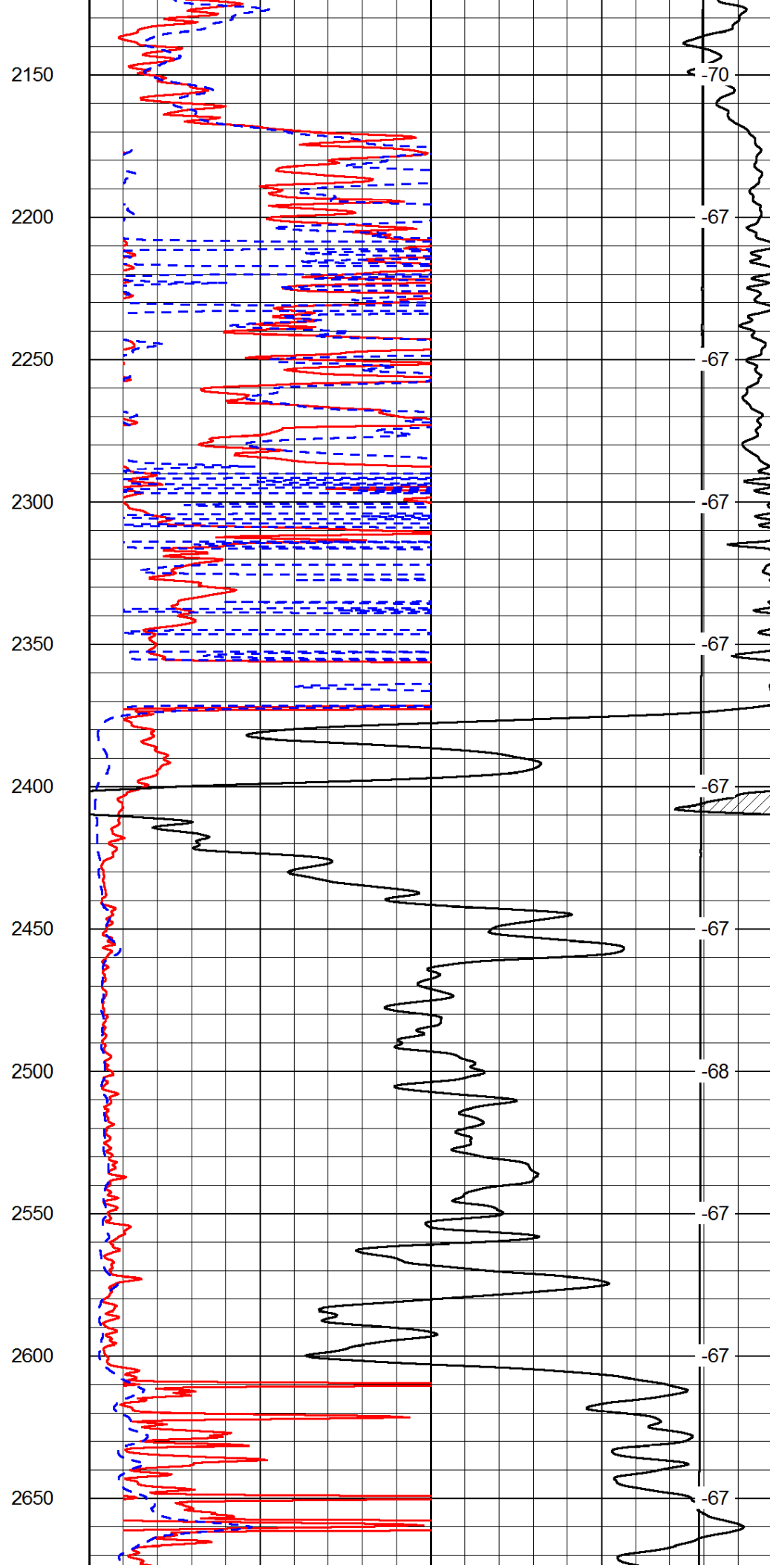
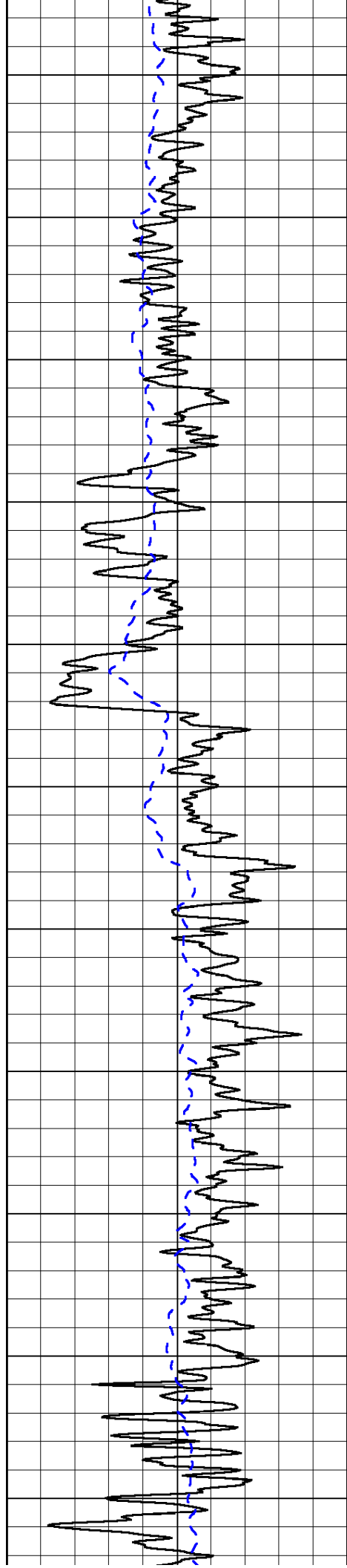
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50	Deep Resistivity	500

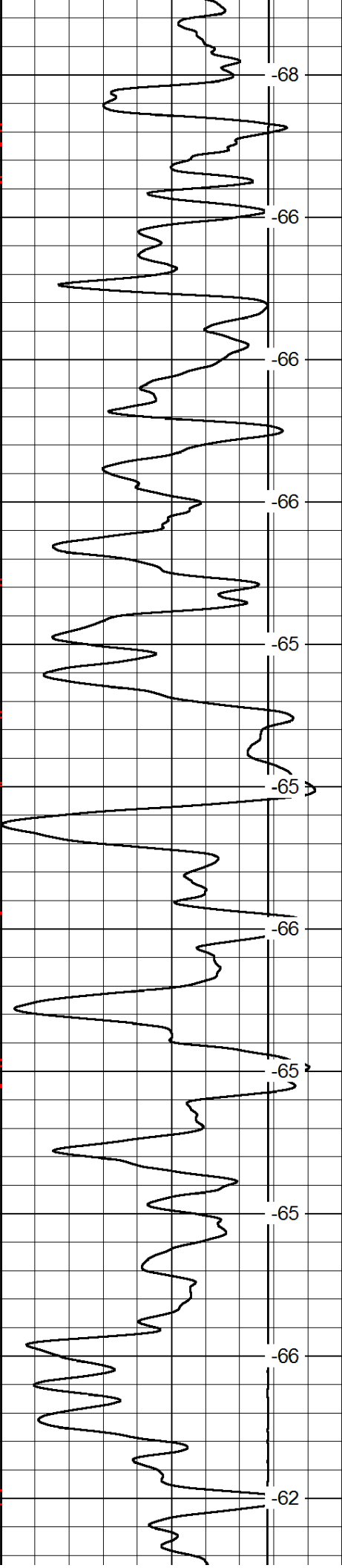
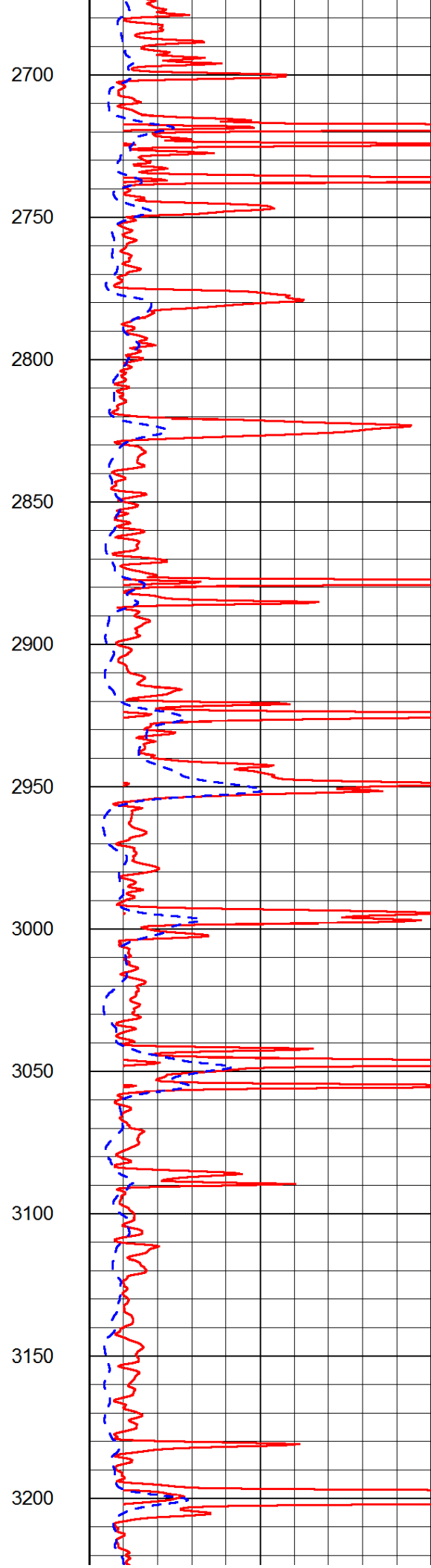
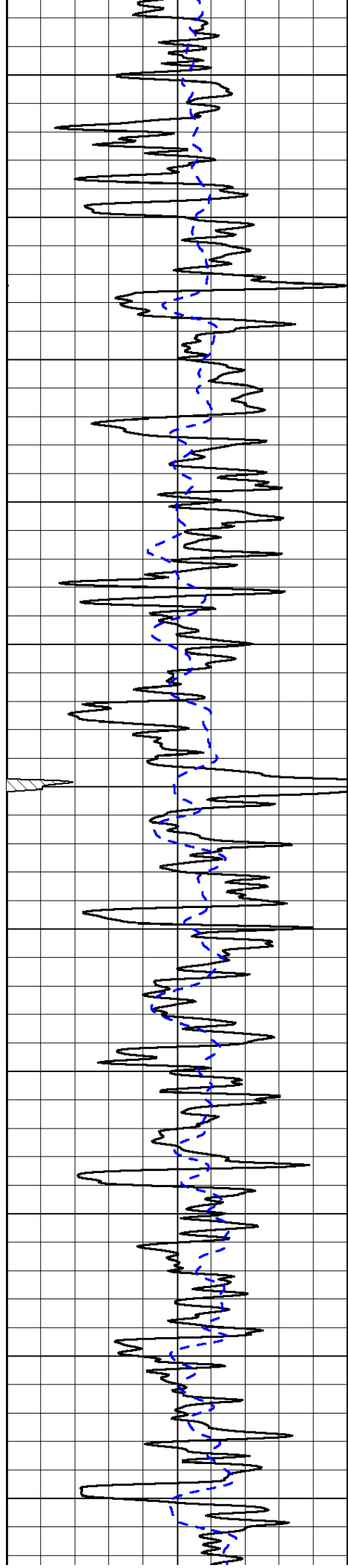


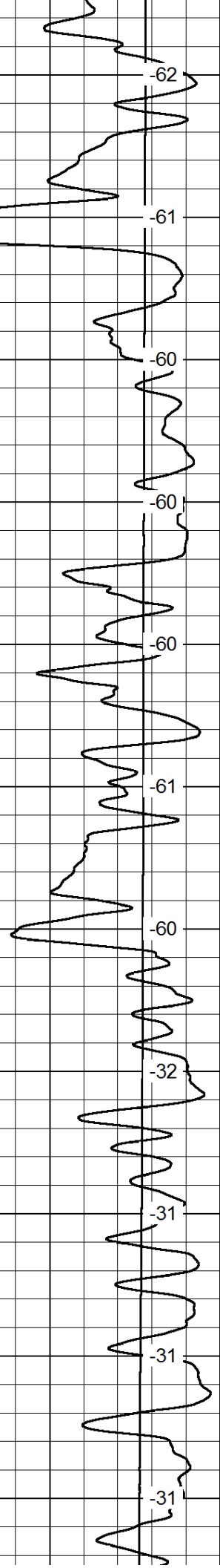
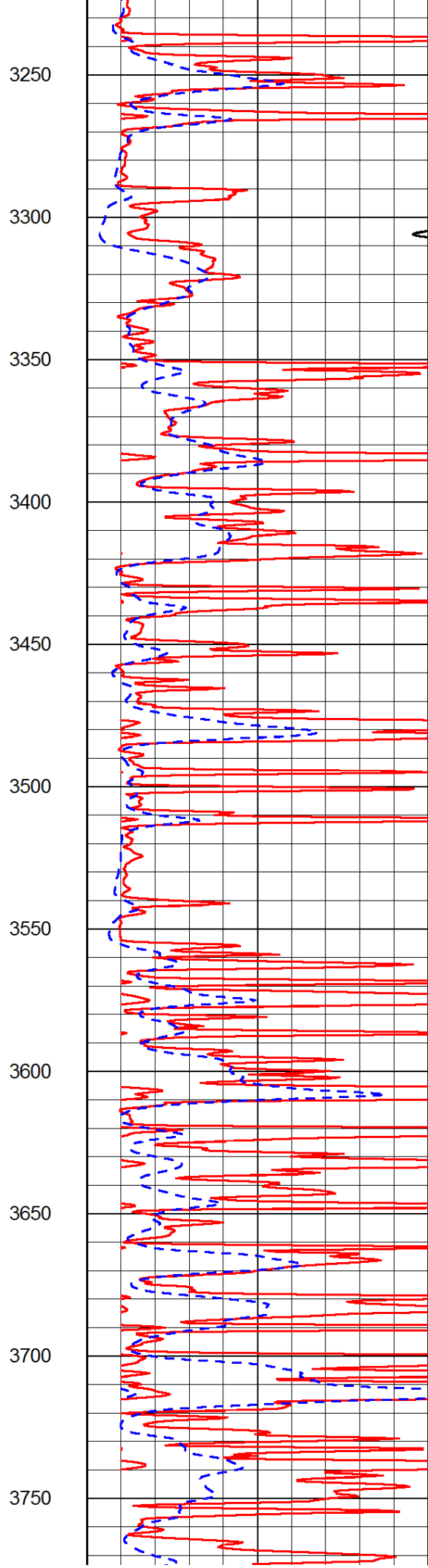
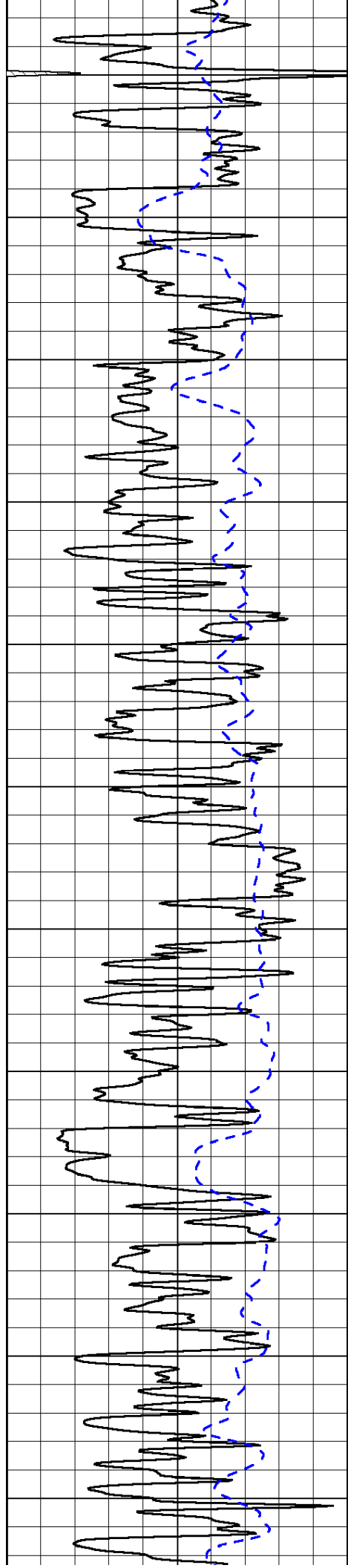


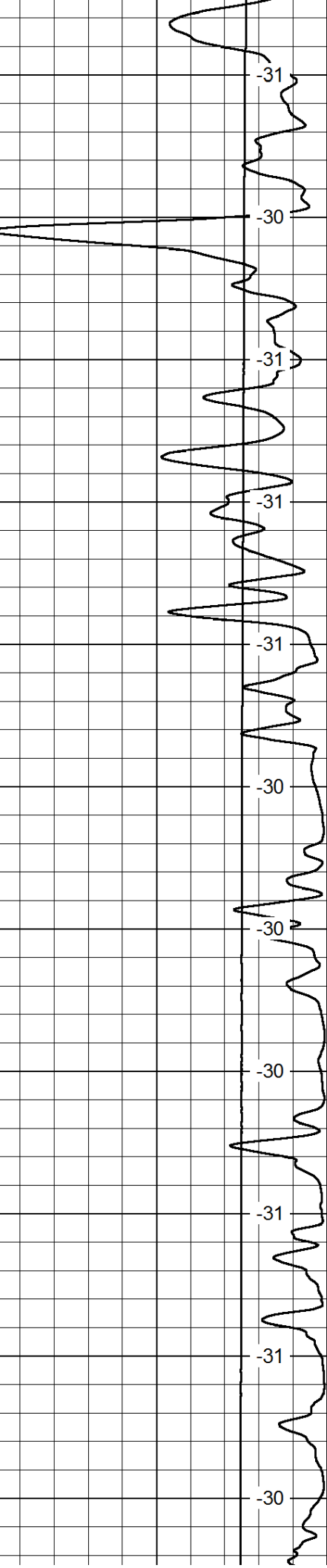
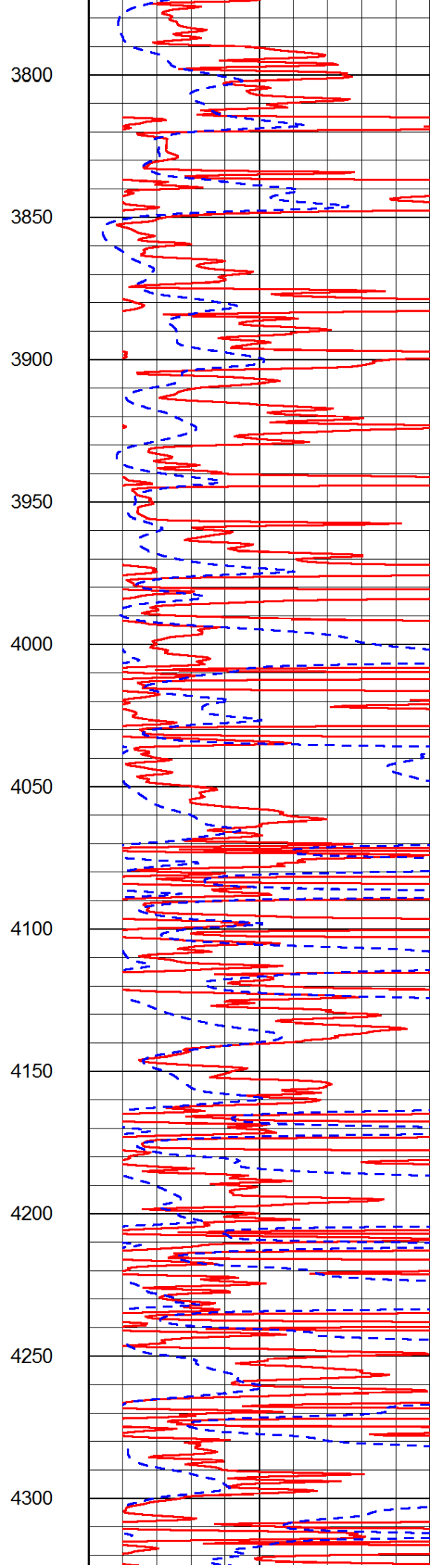
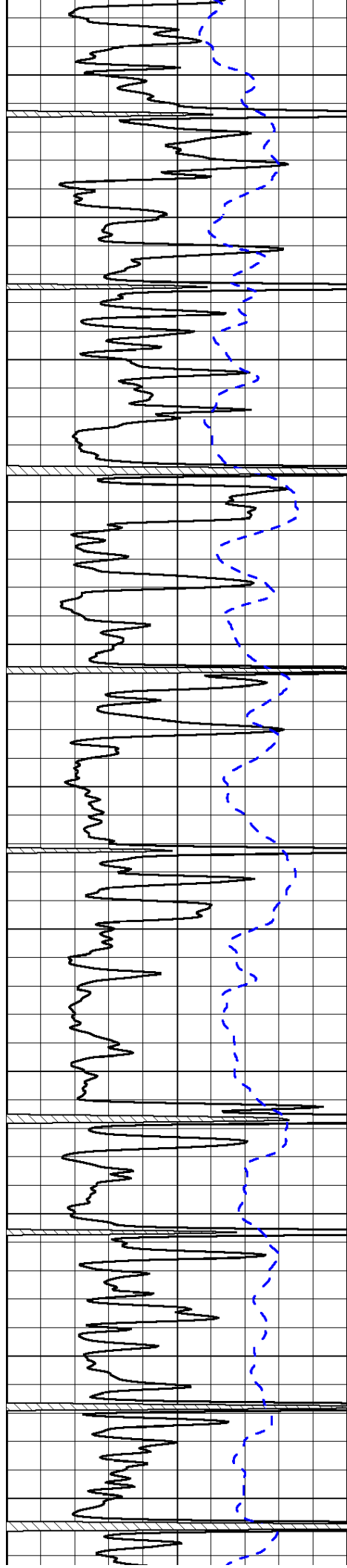


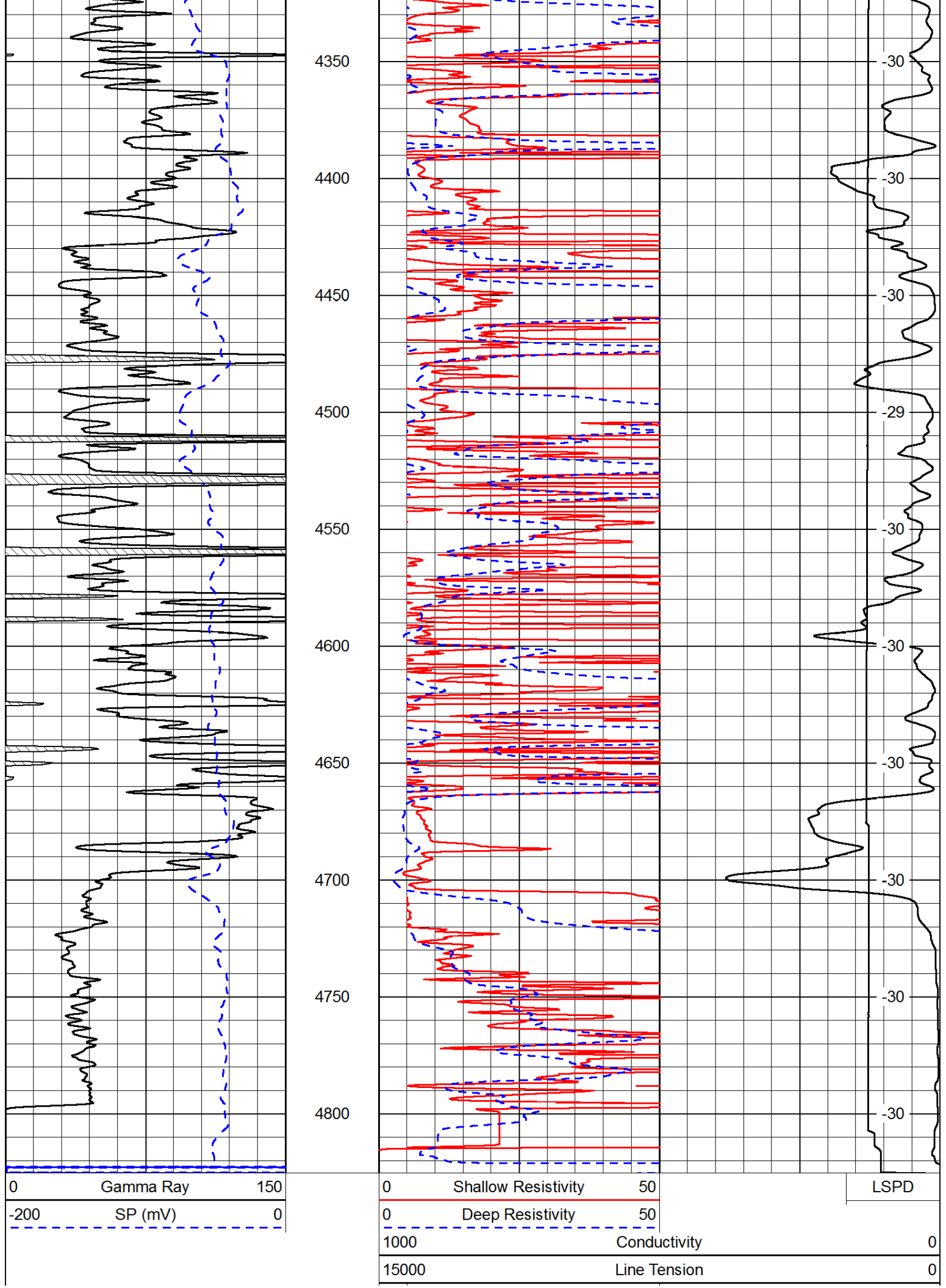












50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File:

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Dataset Pathname:

DIL/murstk

Presentation Format:

dil

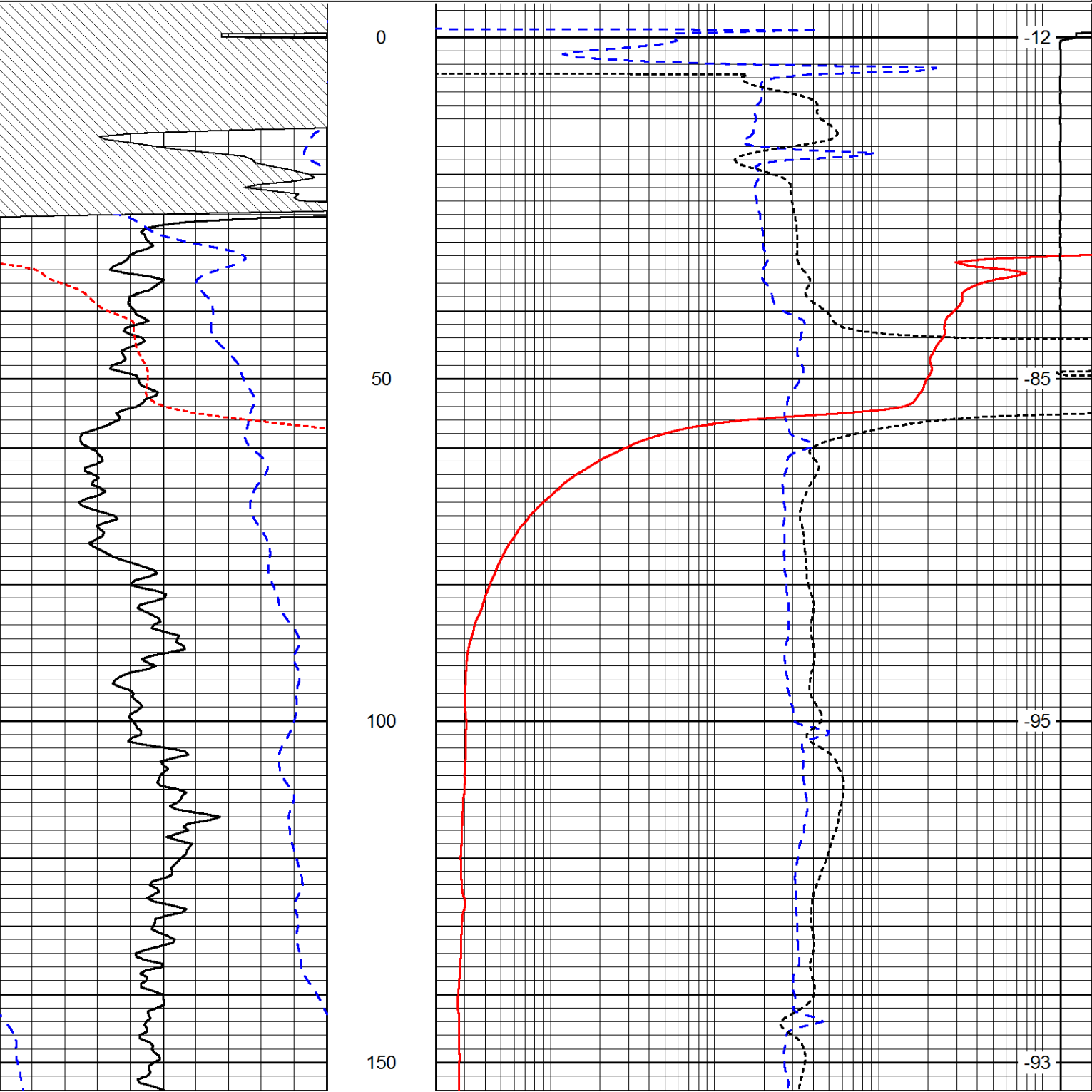
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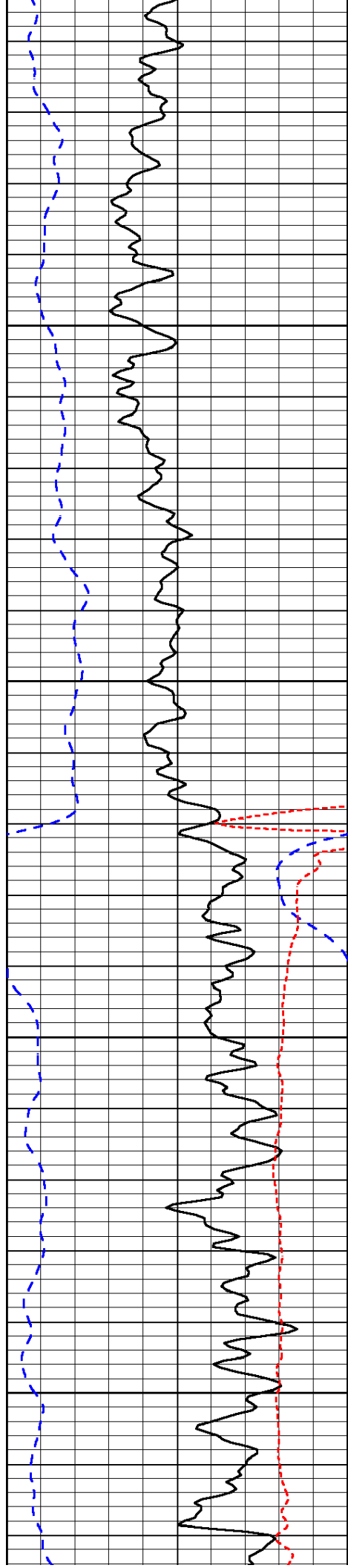
Tue Dec 09 20:27:36 2014

Charted by:

Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
					LSPD



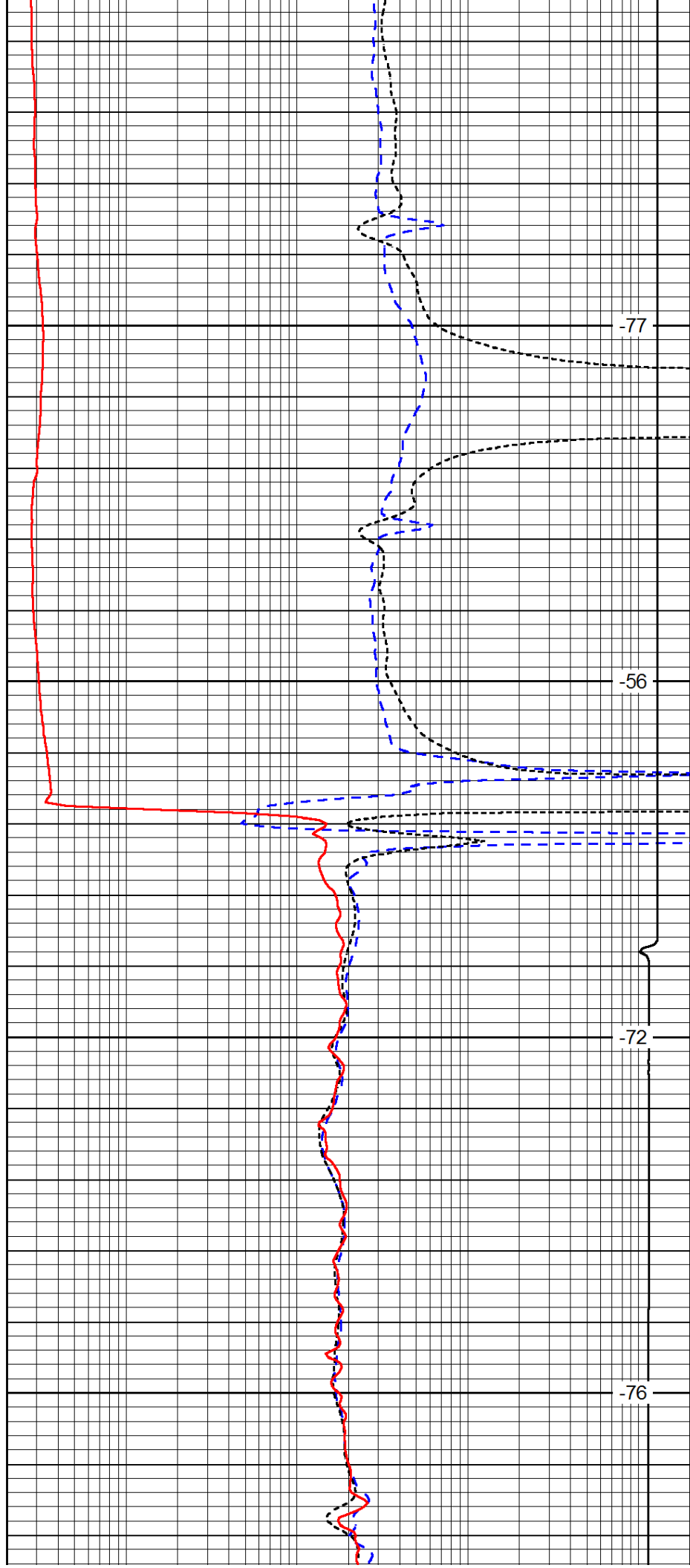


200

250

300

350

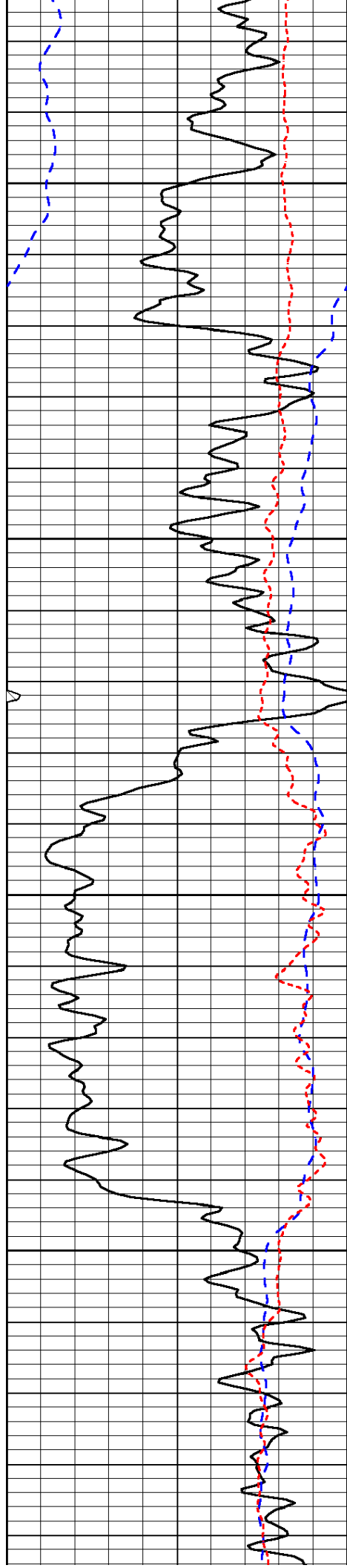


-77

-56

-72

-76

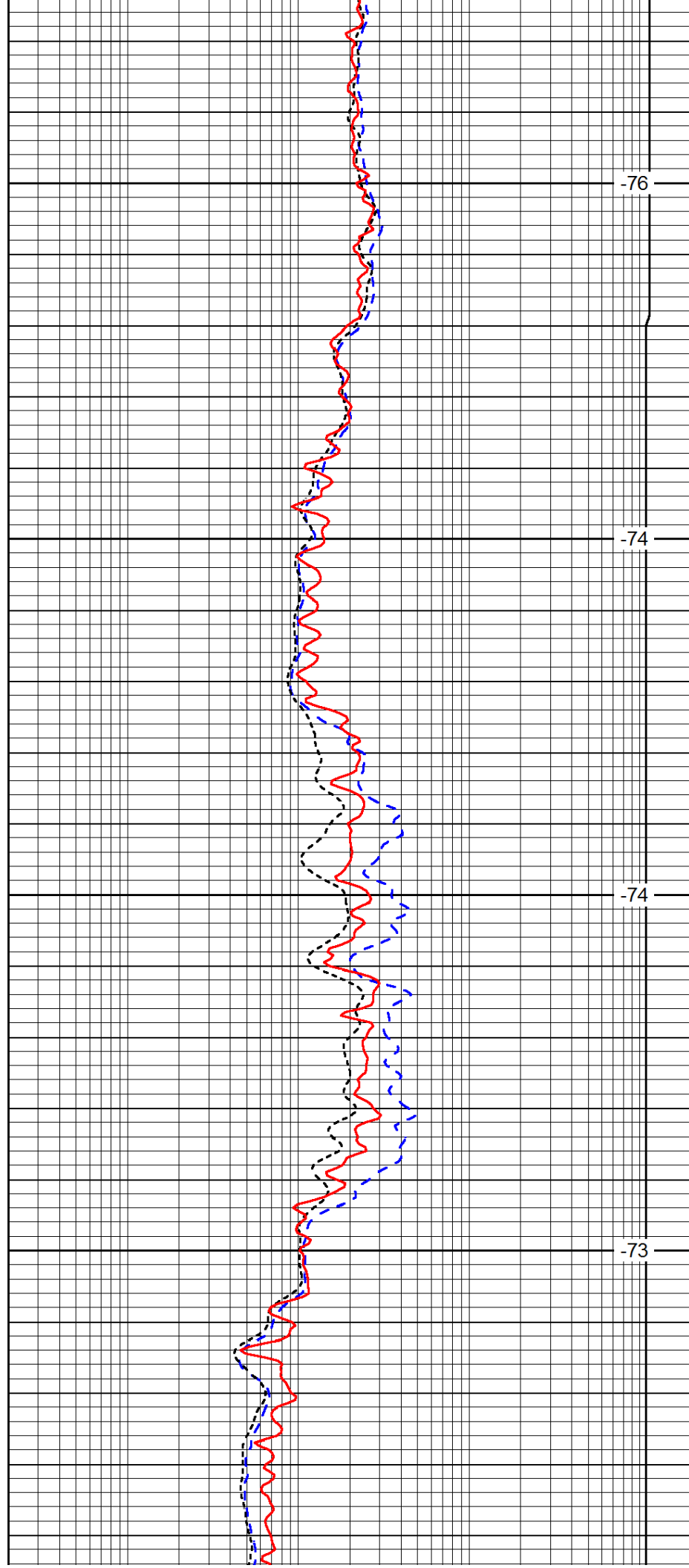


400

450

500

550

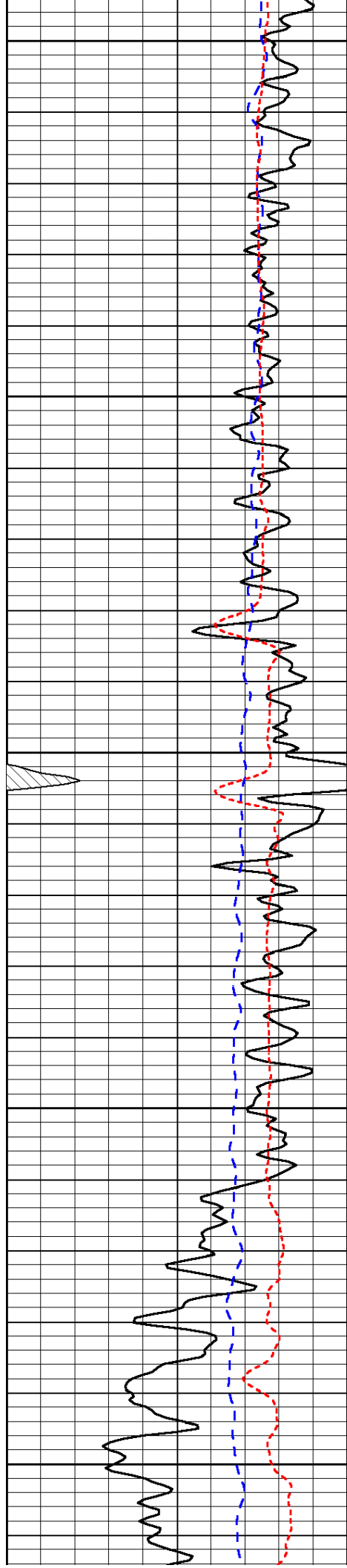


-76

-74

-74

-73



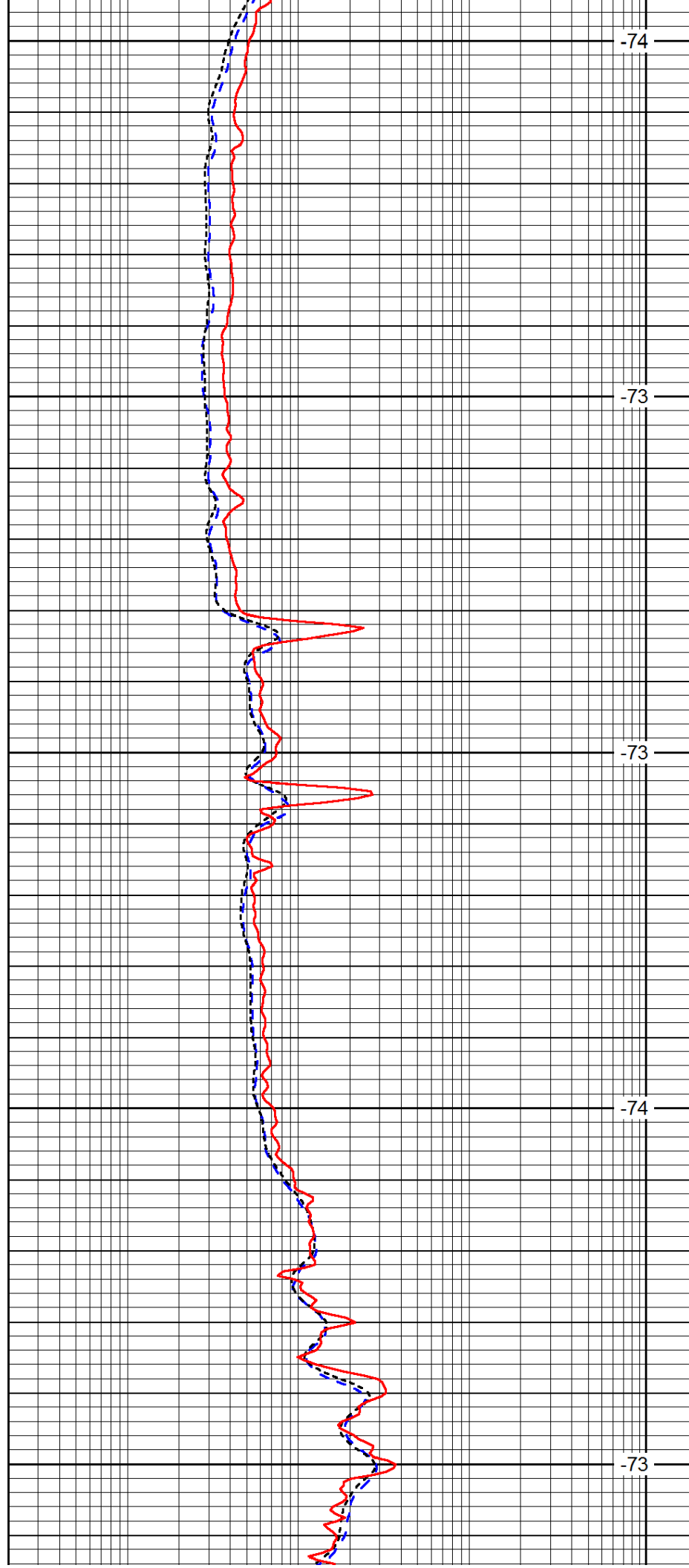
600

650

700

750

800



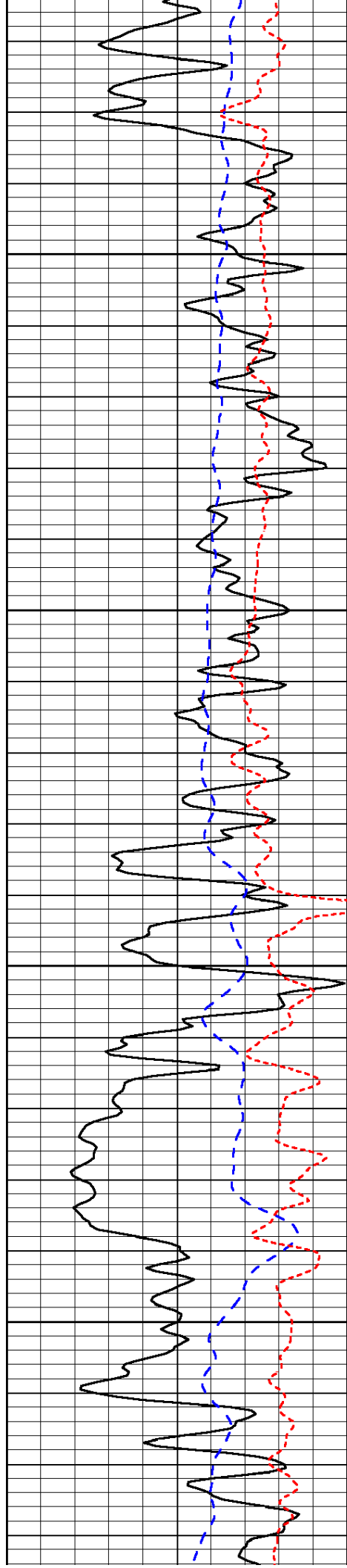
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-73

-73

-74

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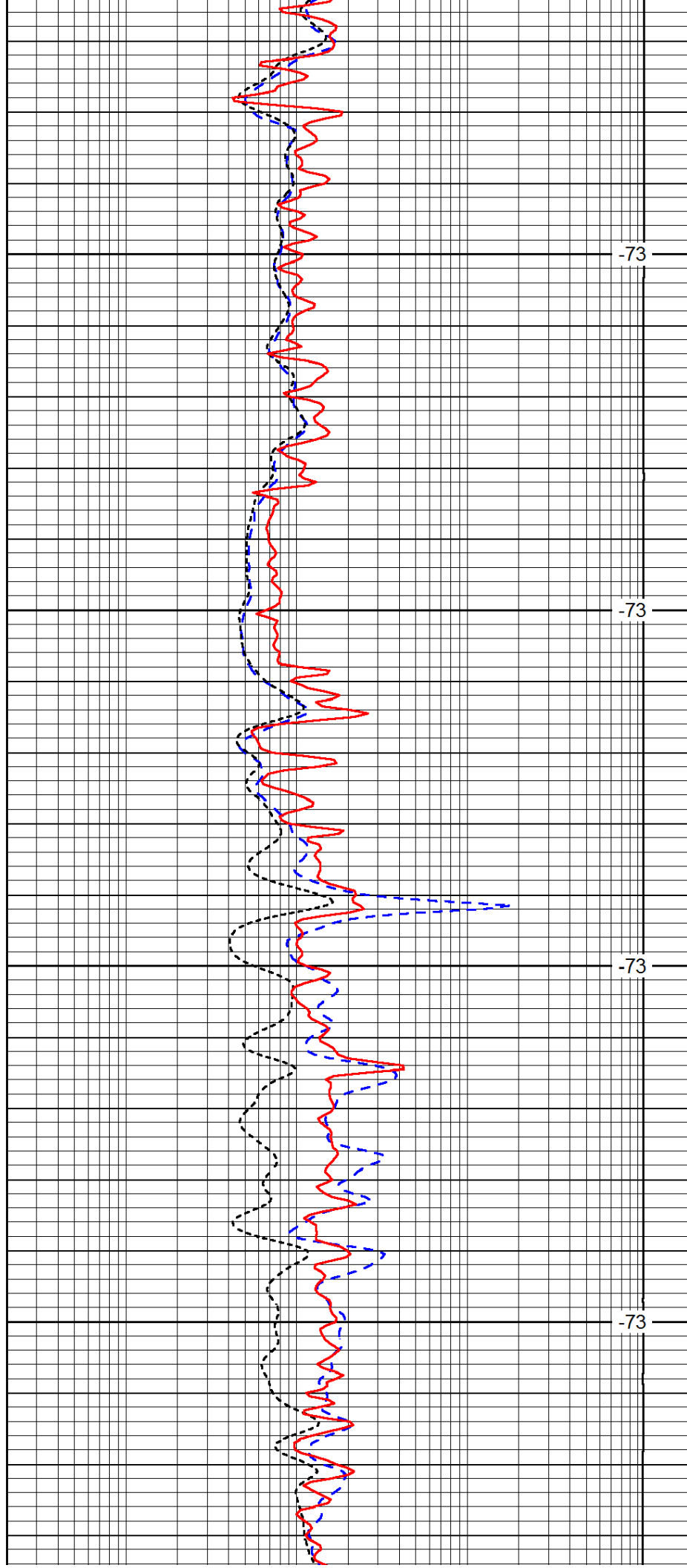


850

900

950

1000

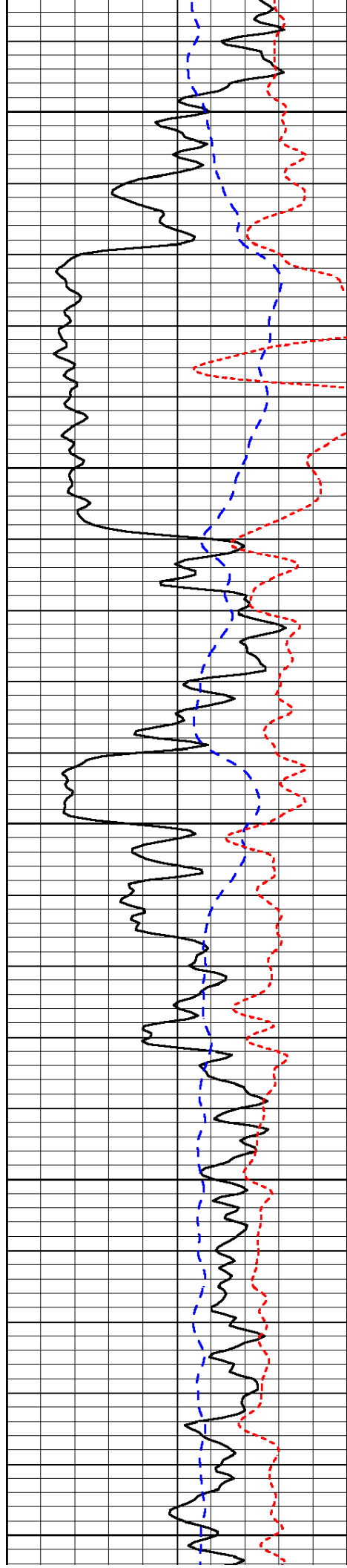


-73

-73

-73

-73



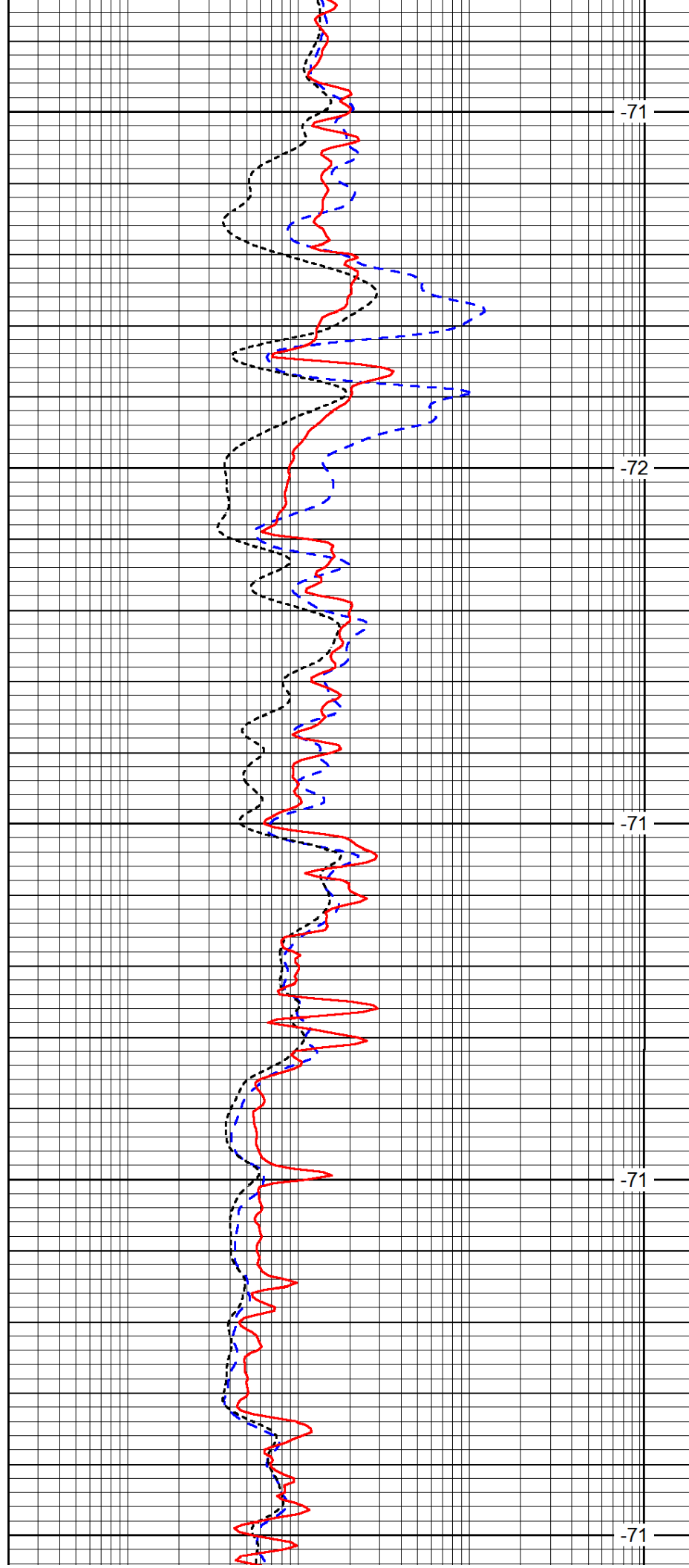
1050

1100

1150

1200

1250



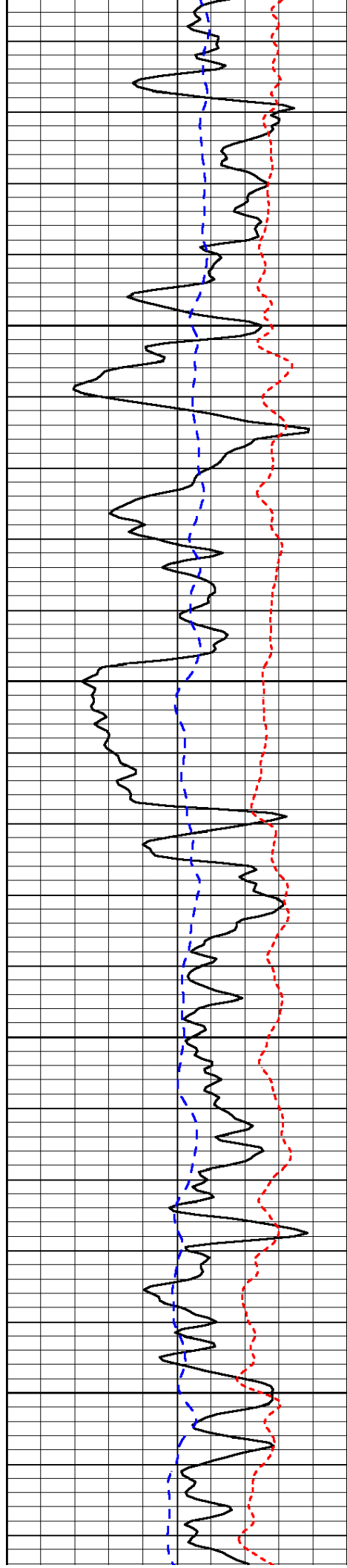
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-72

-71

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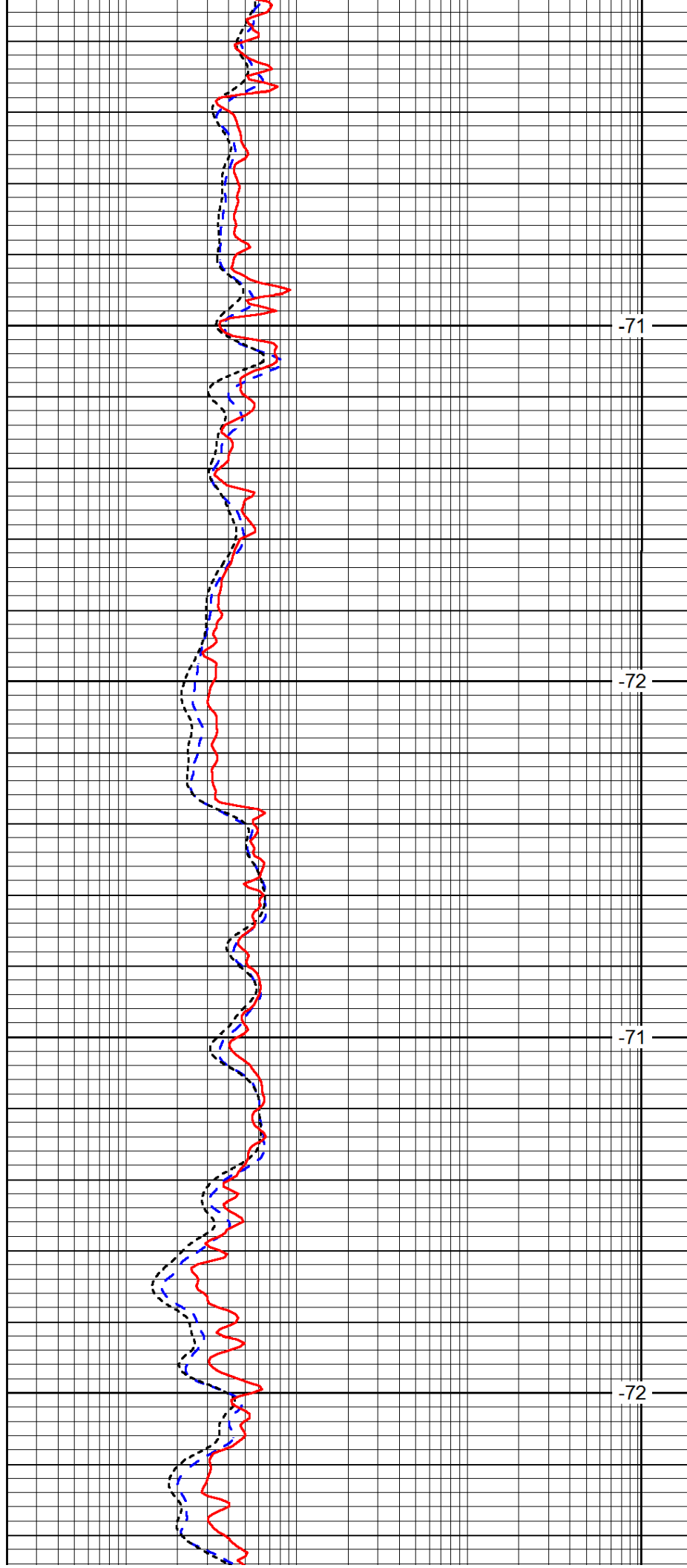


1300

1350

1400

1450

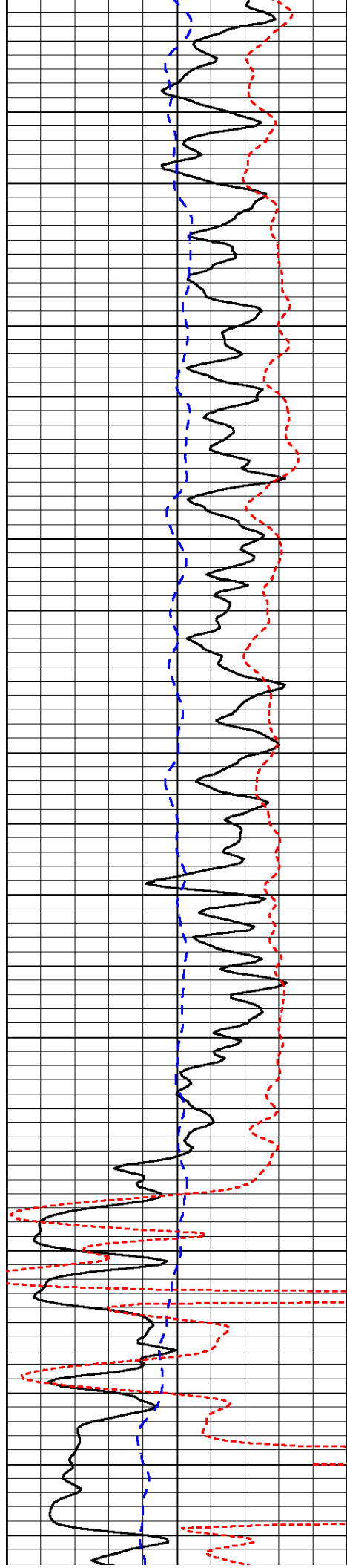


-71

-72

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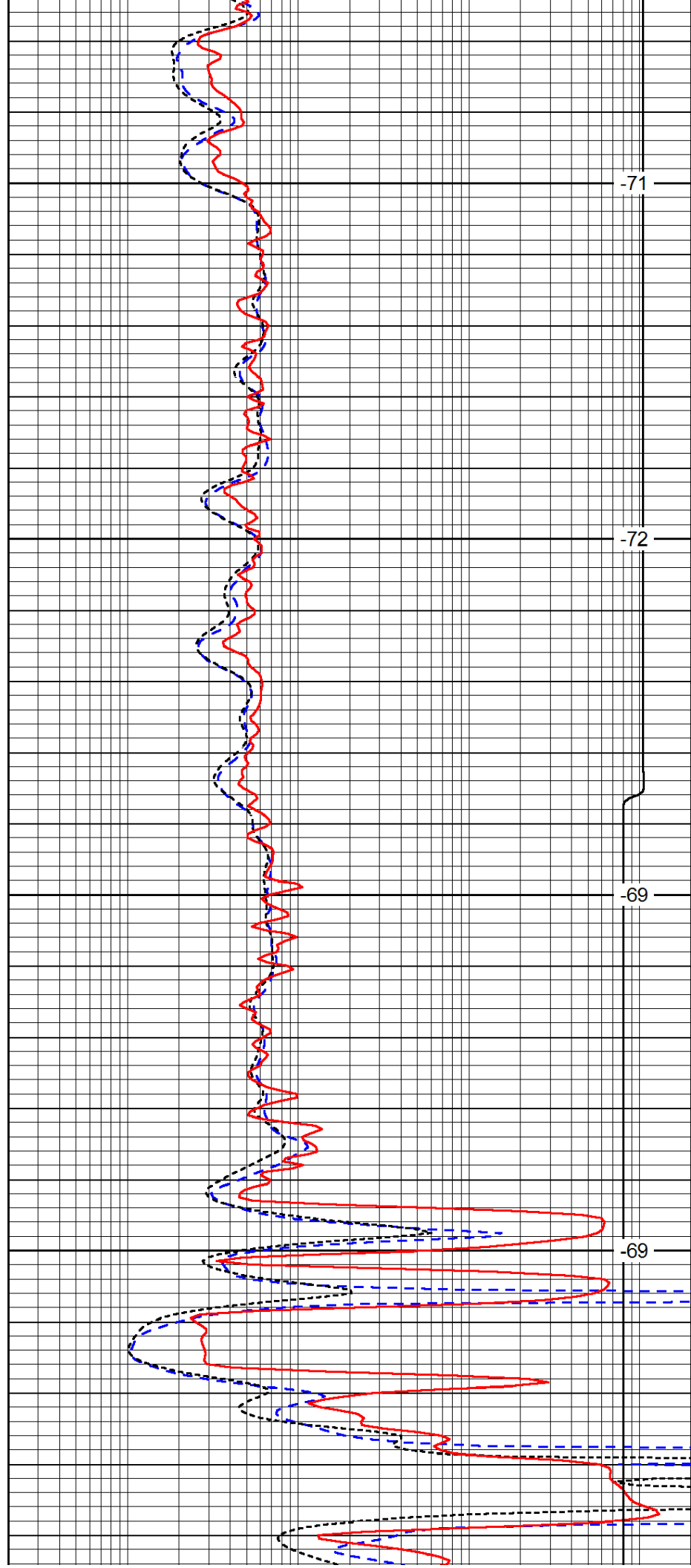


1500

1550

1600

1650

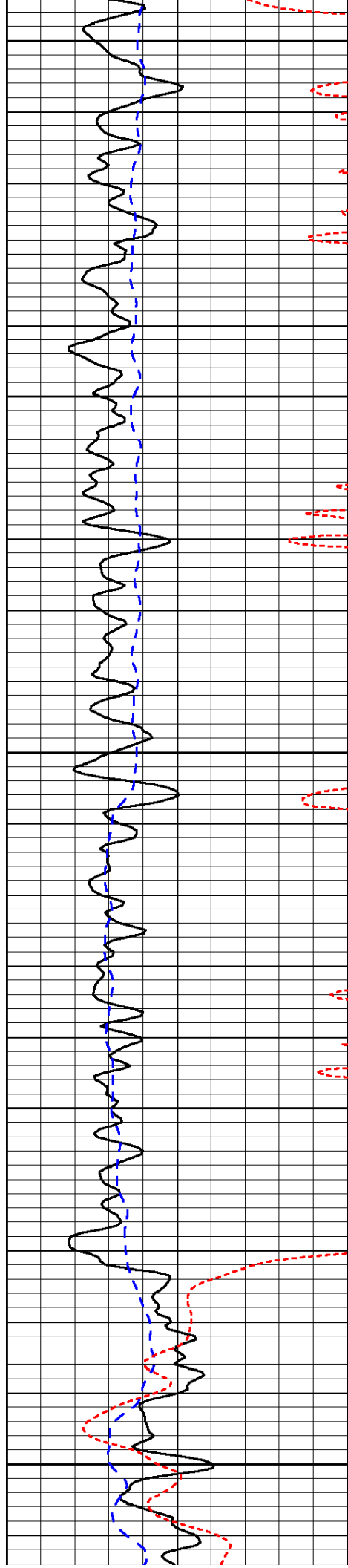


-71

-72

-69

-69



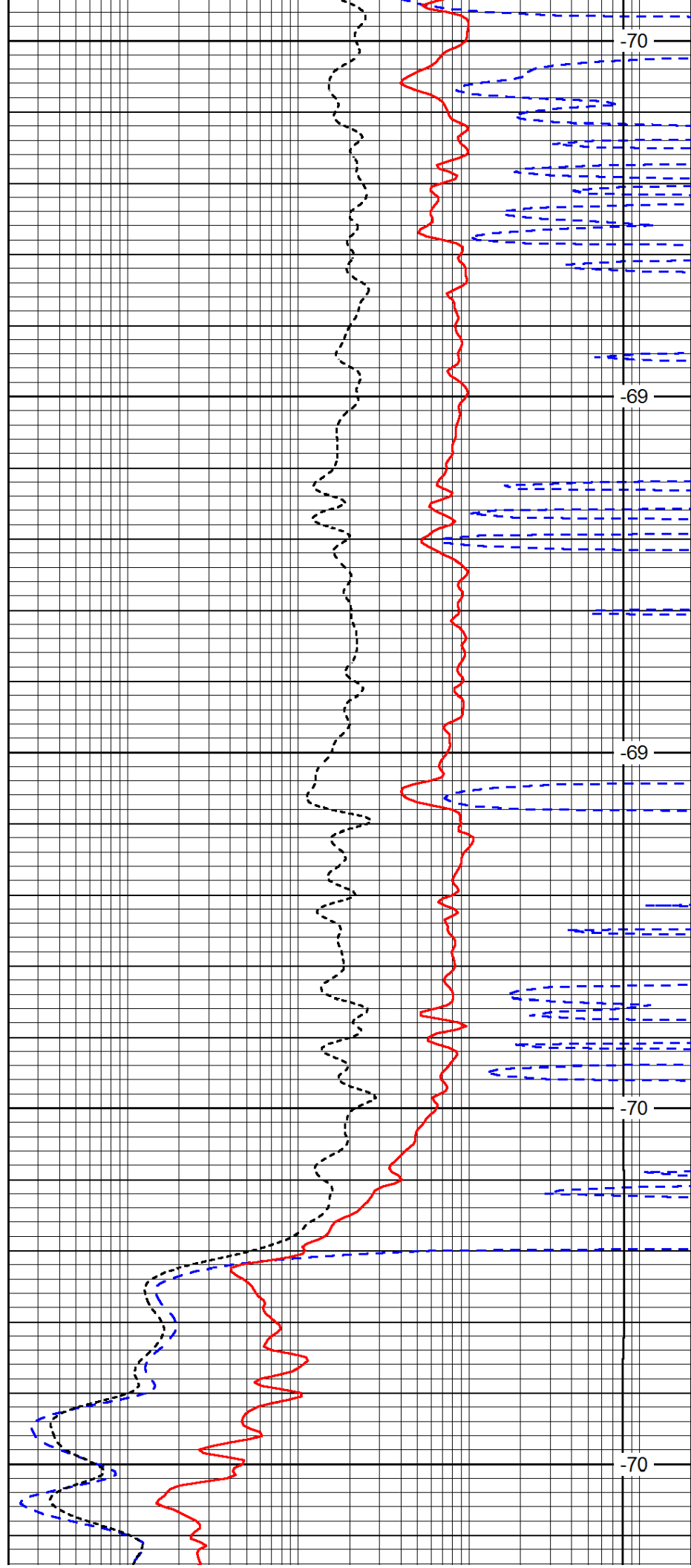
1700

1750

1800

1850

1900



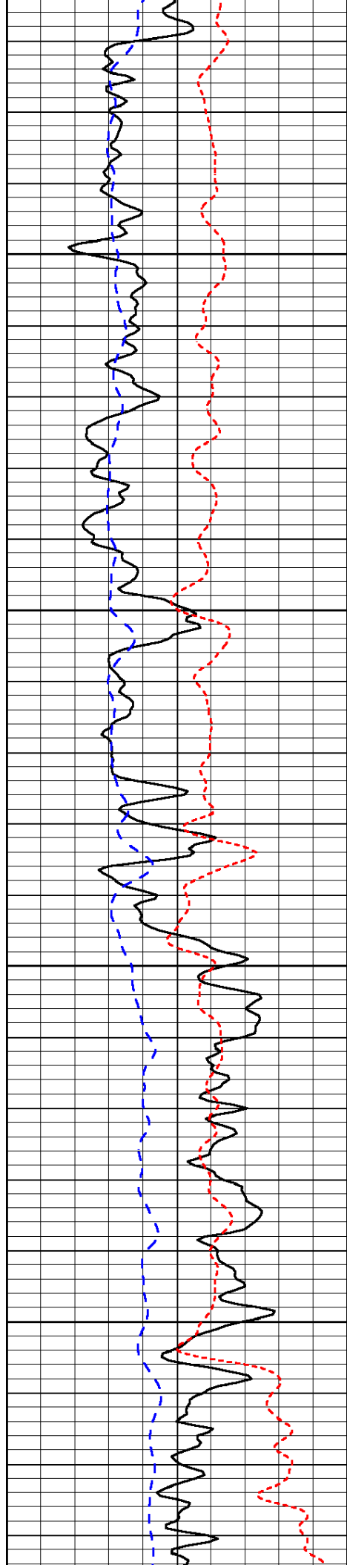
-70

-69

-69

-70

-70

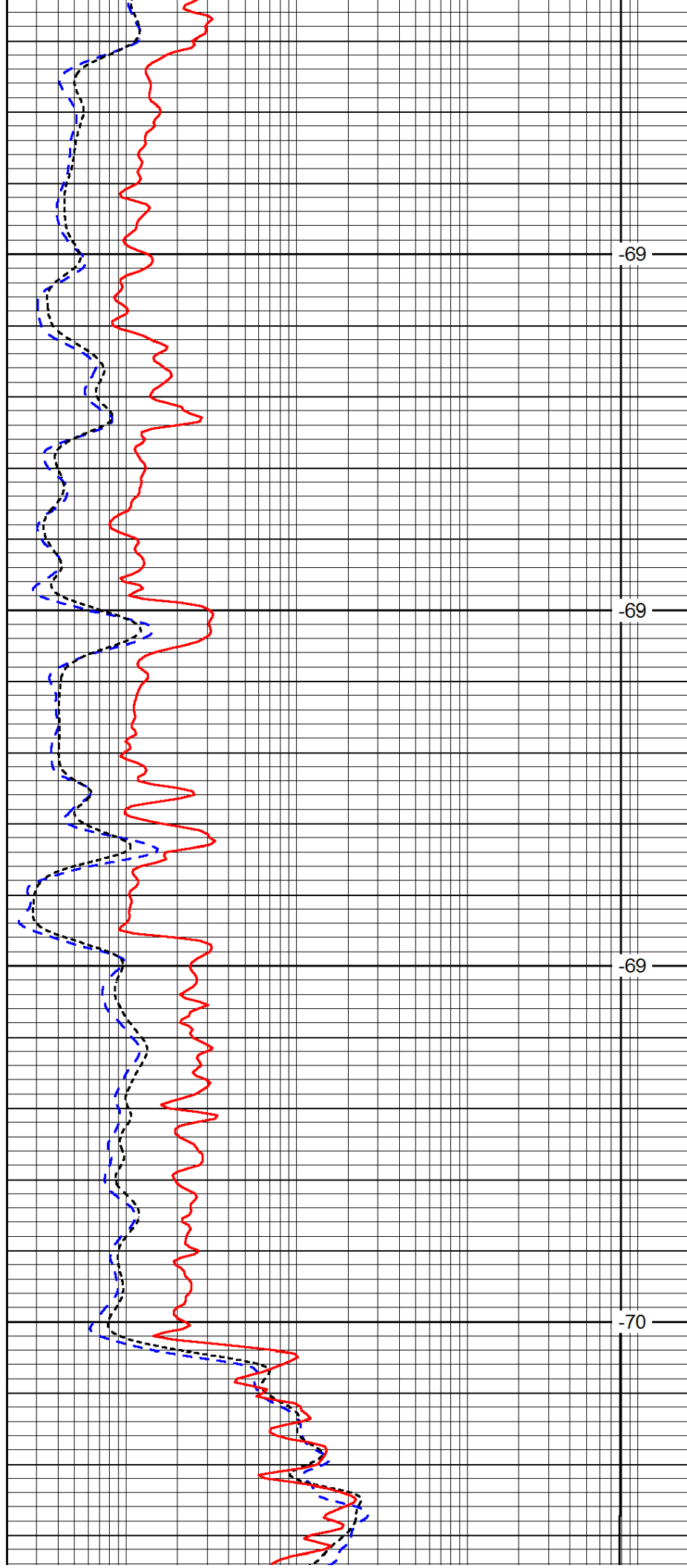


1950

2000

2050

2100

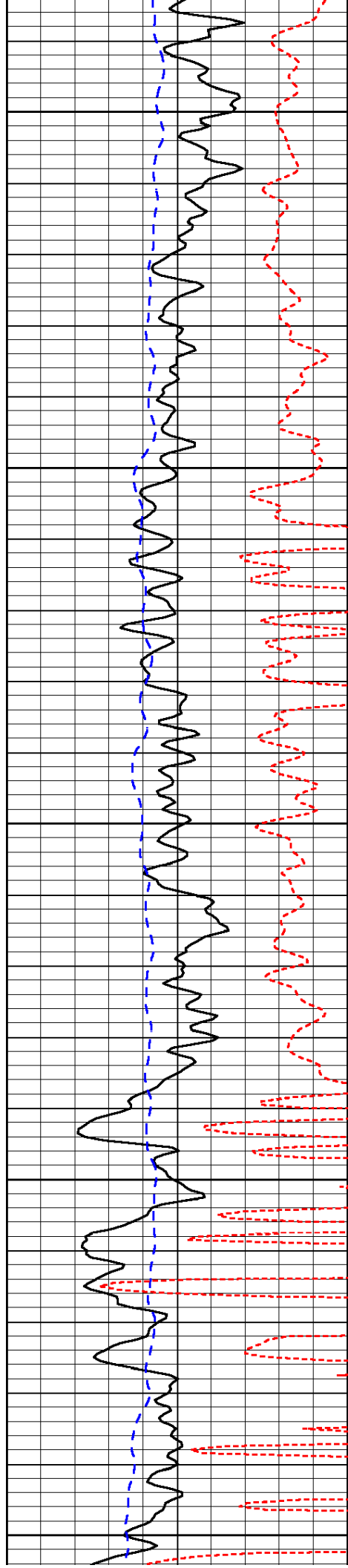


-69

-69

-69

-70



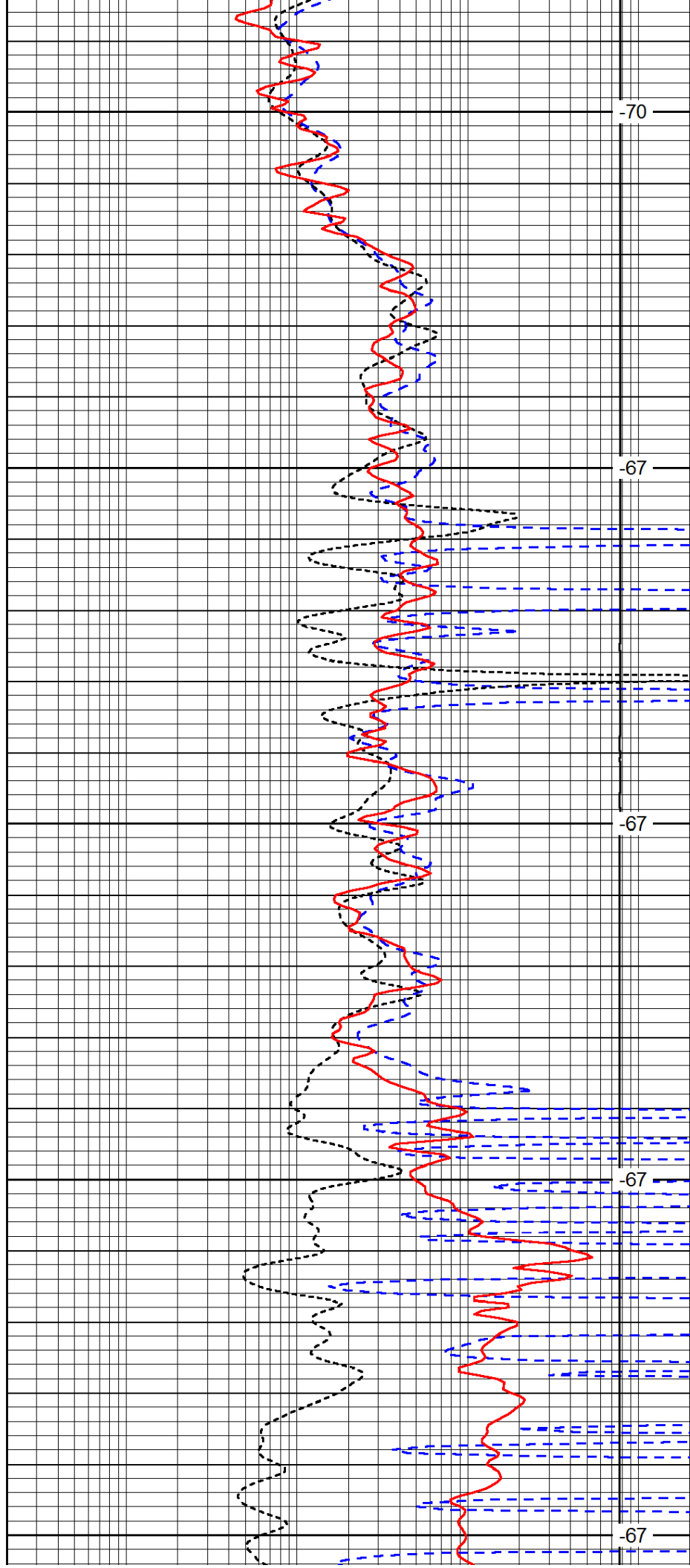
2150

2200

2250

2300

2350



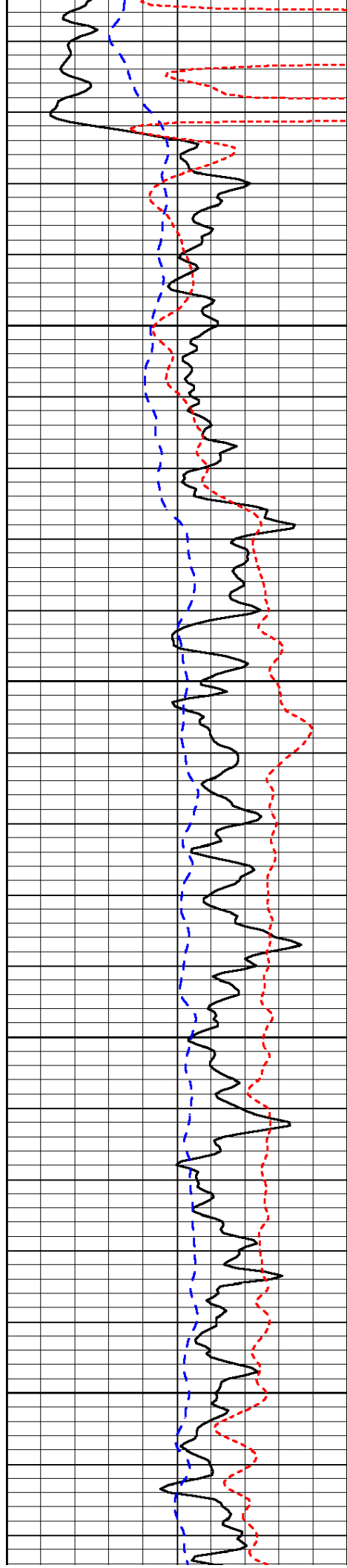
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-67

-67

-67

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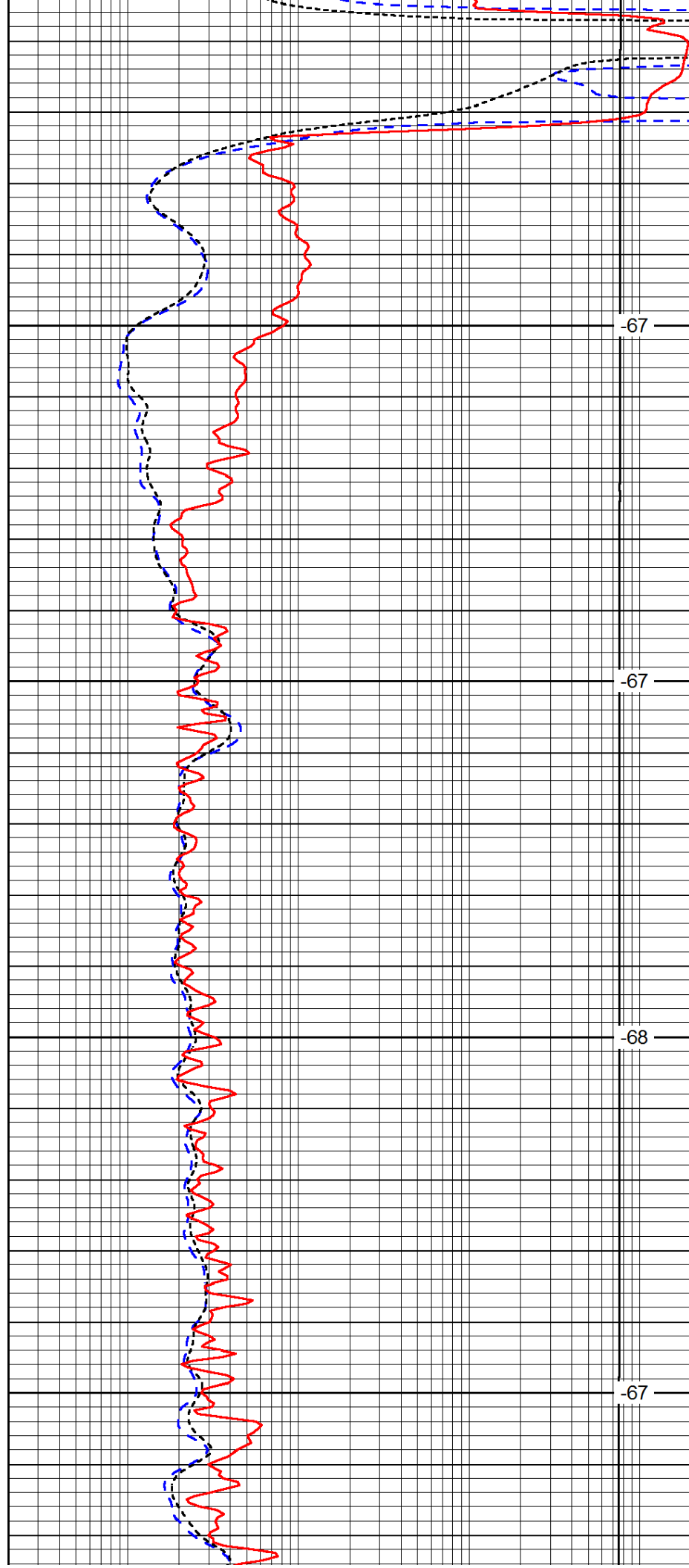


2400

2450

2500

2550

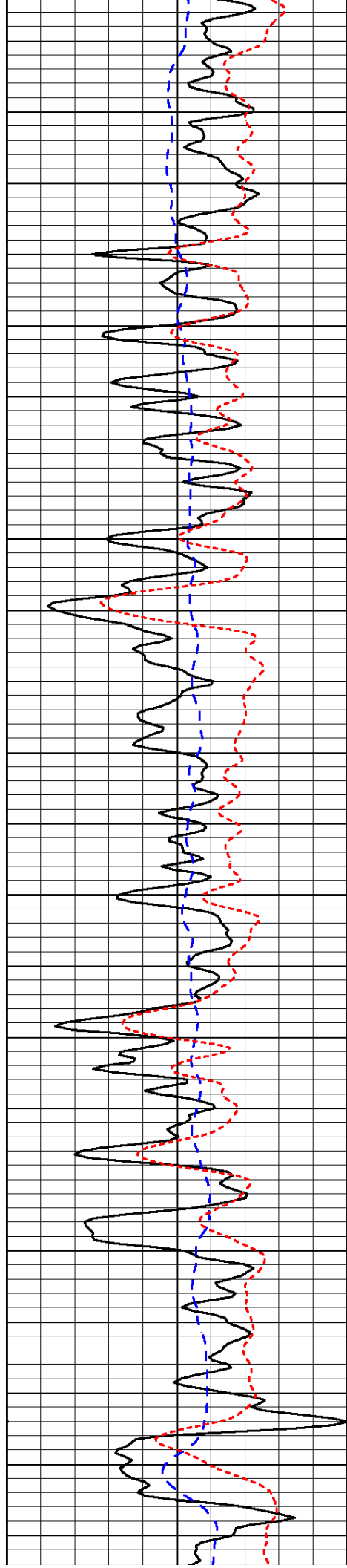


-67

-67

-68

-67

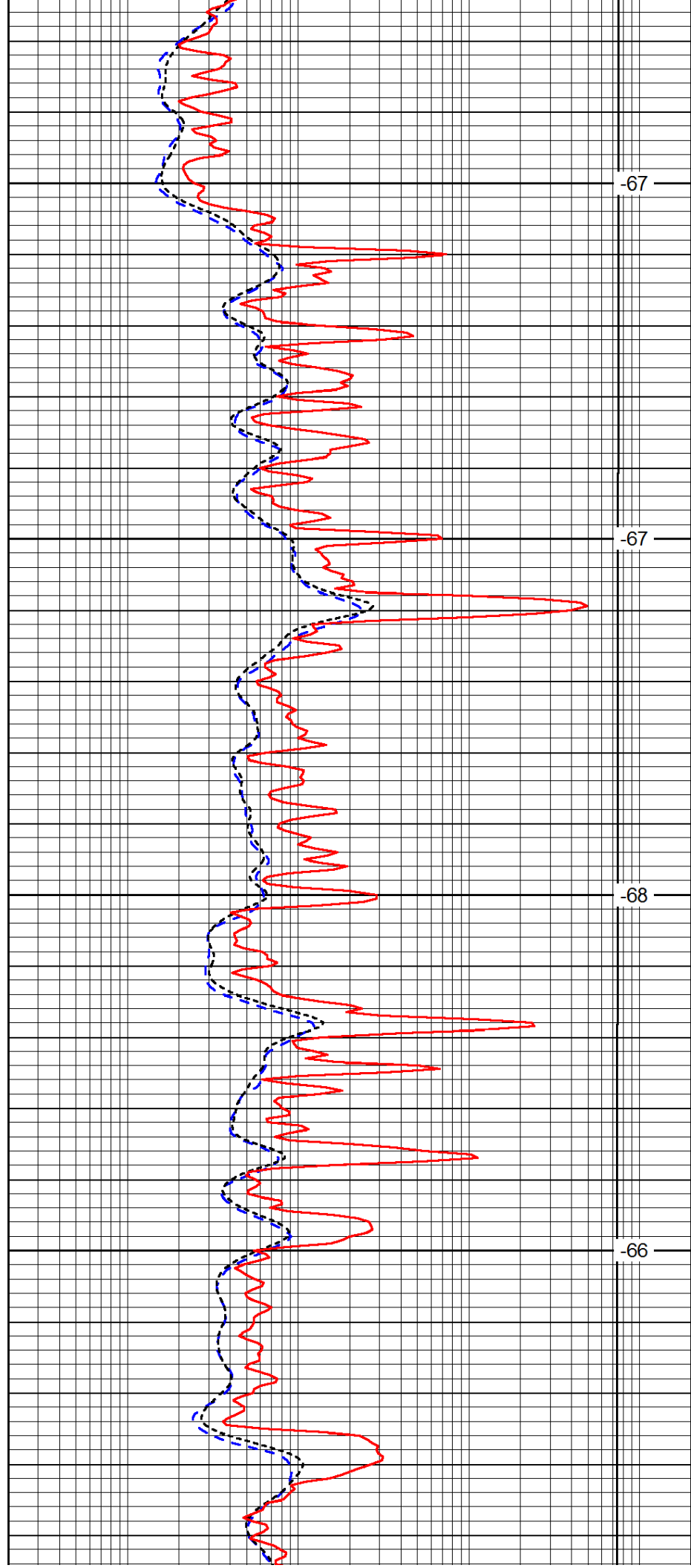


2600

2650

2700

2750

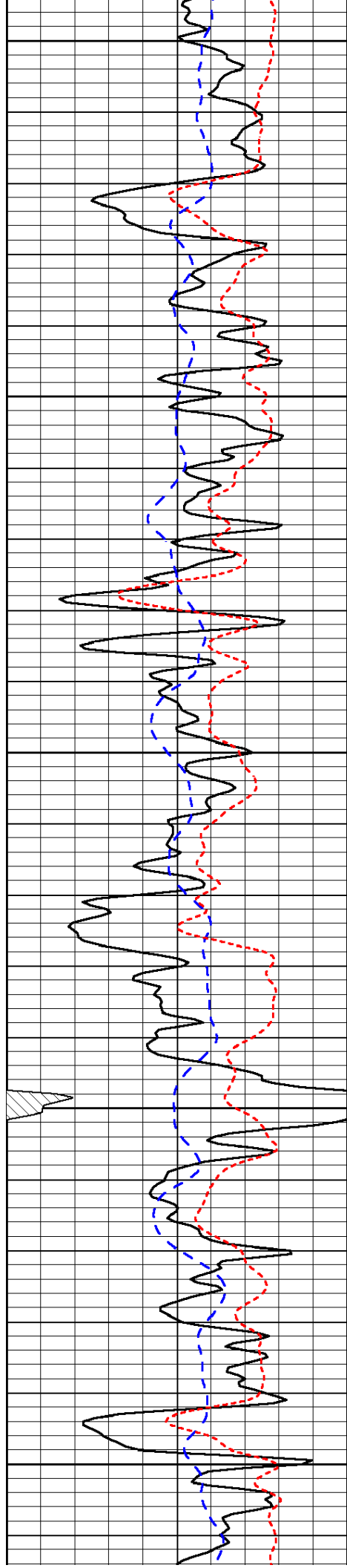


-67

-67

-68

-66



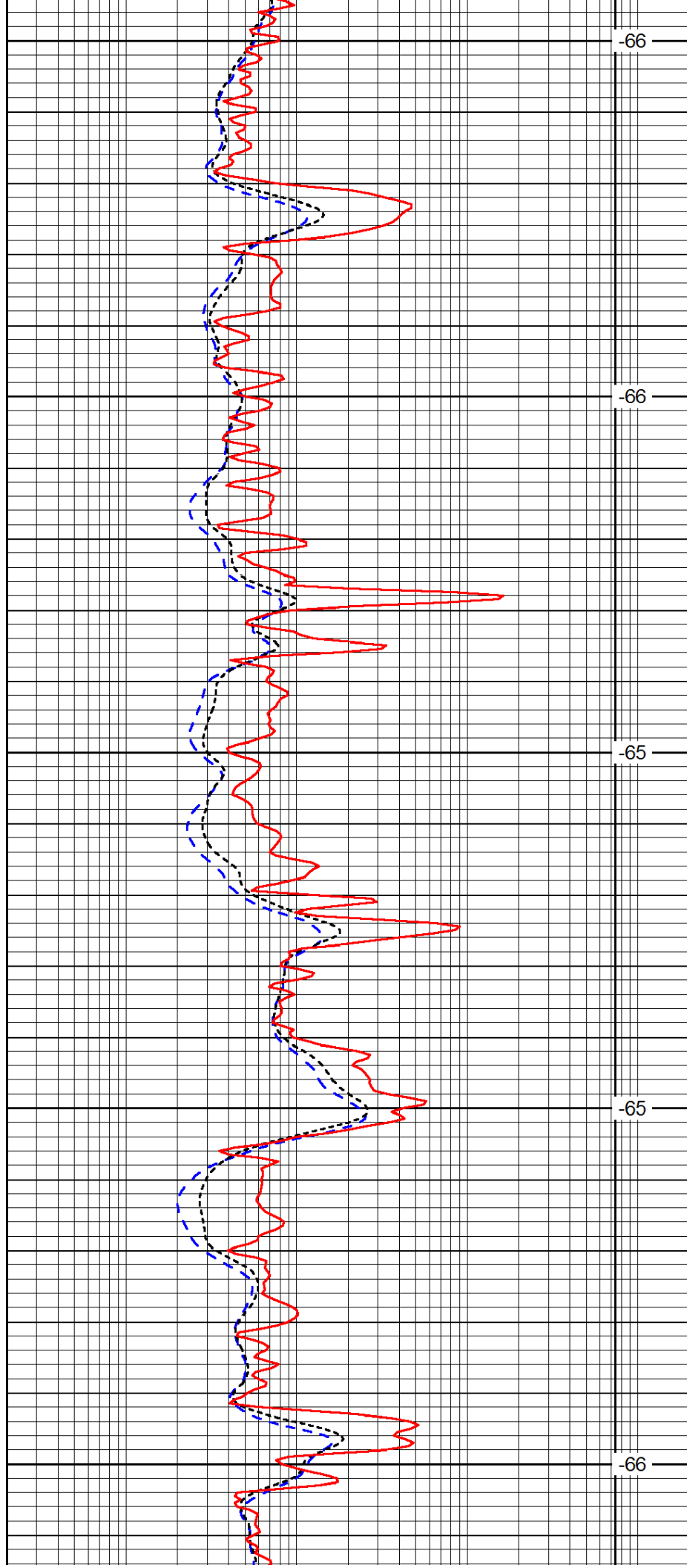
2800

2850

2900

2950

3000



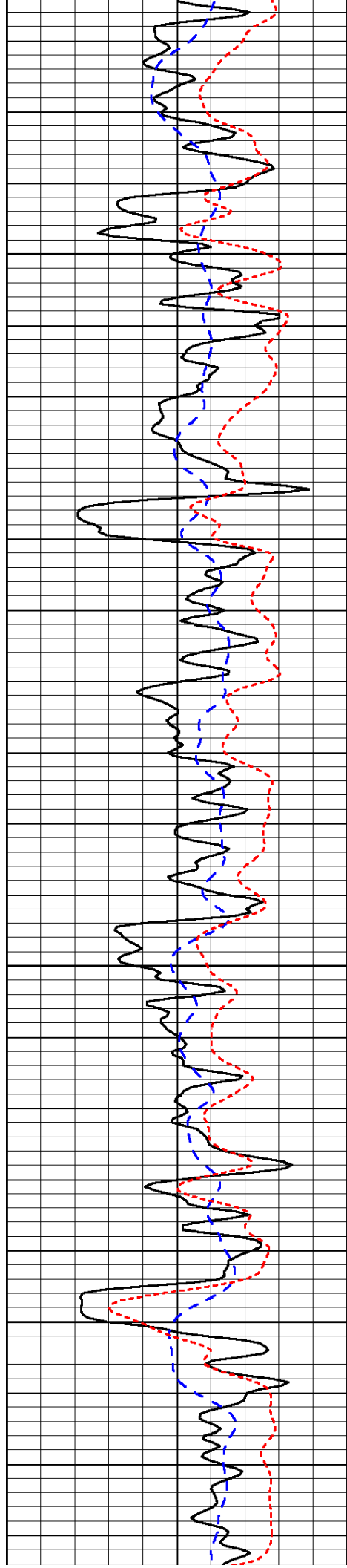
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-66

-65

-65

-66

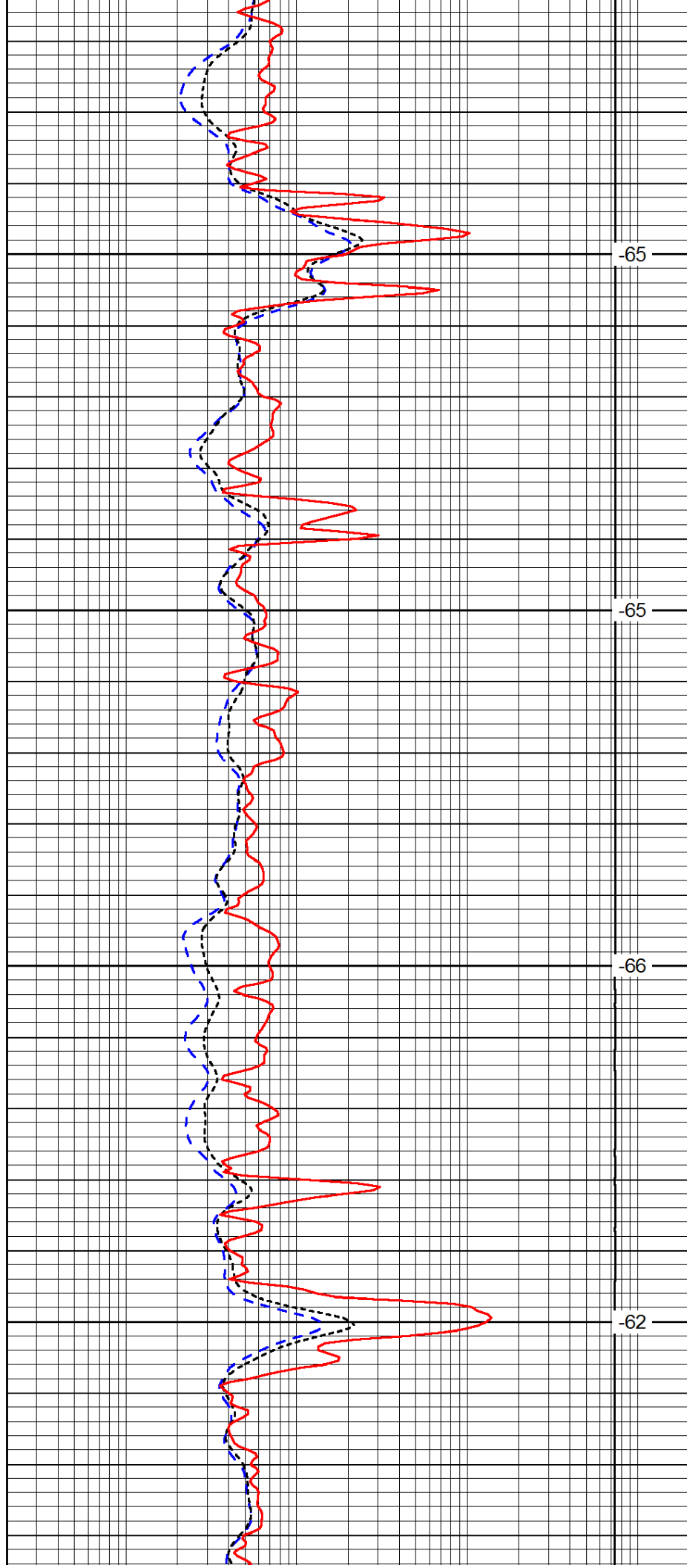


3050

3100

3150

3200

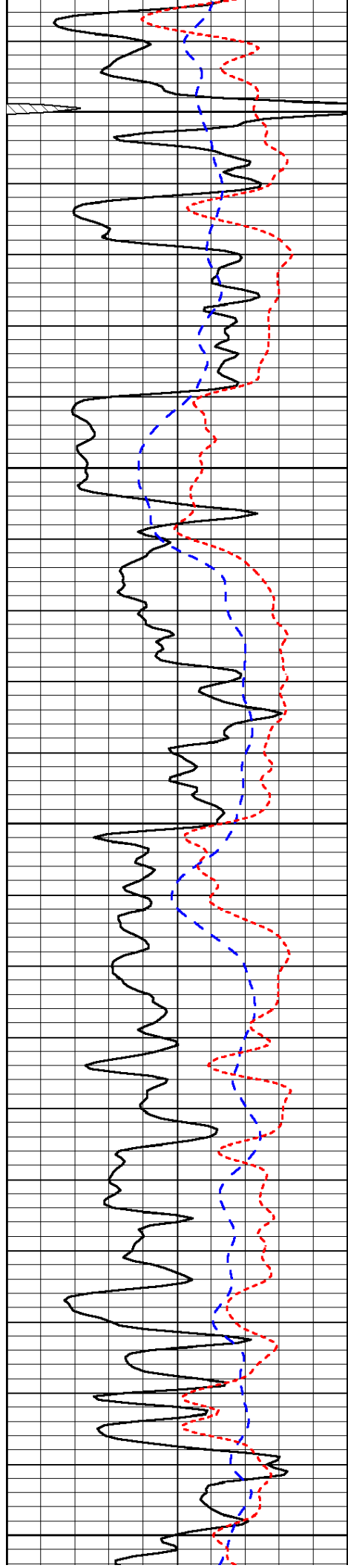


-65

-65

-66

-62



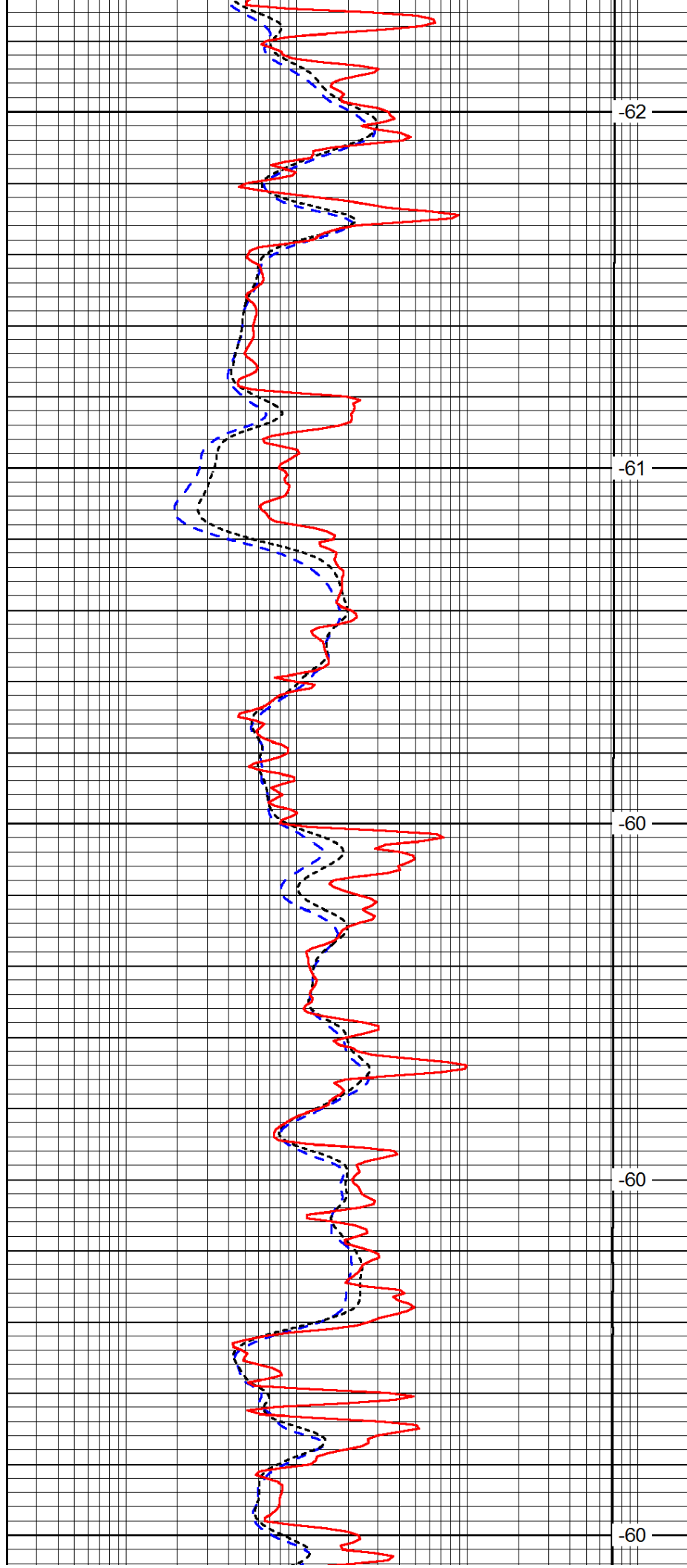
3250

3300

3350

3400

3450



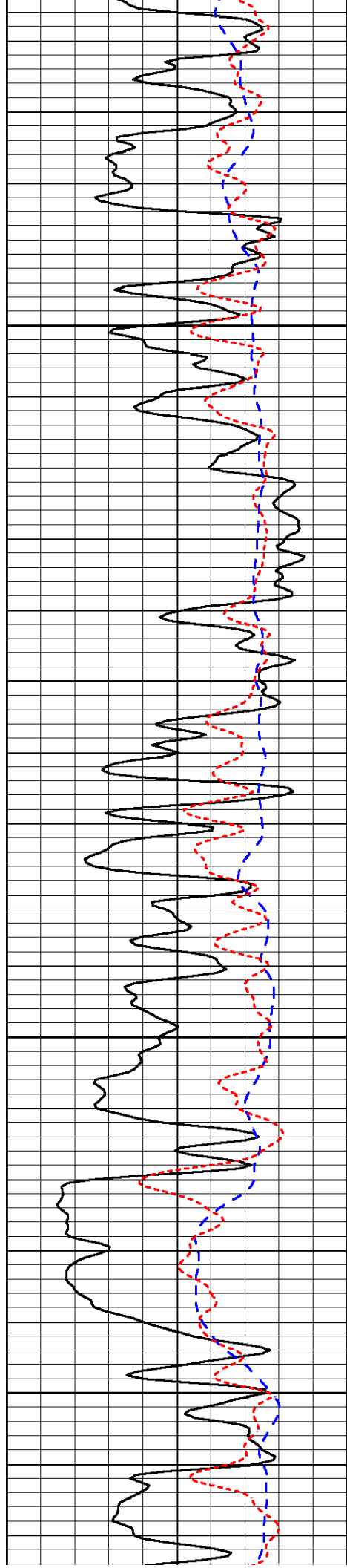
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-61

-60

-60

-60

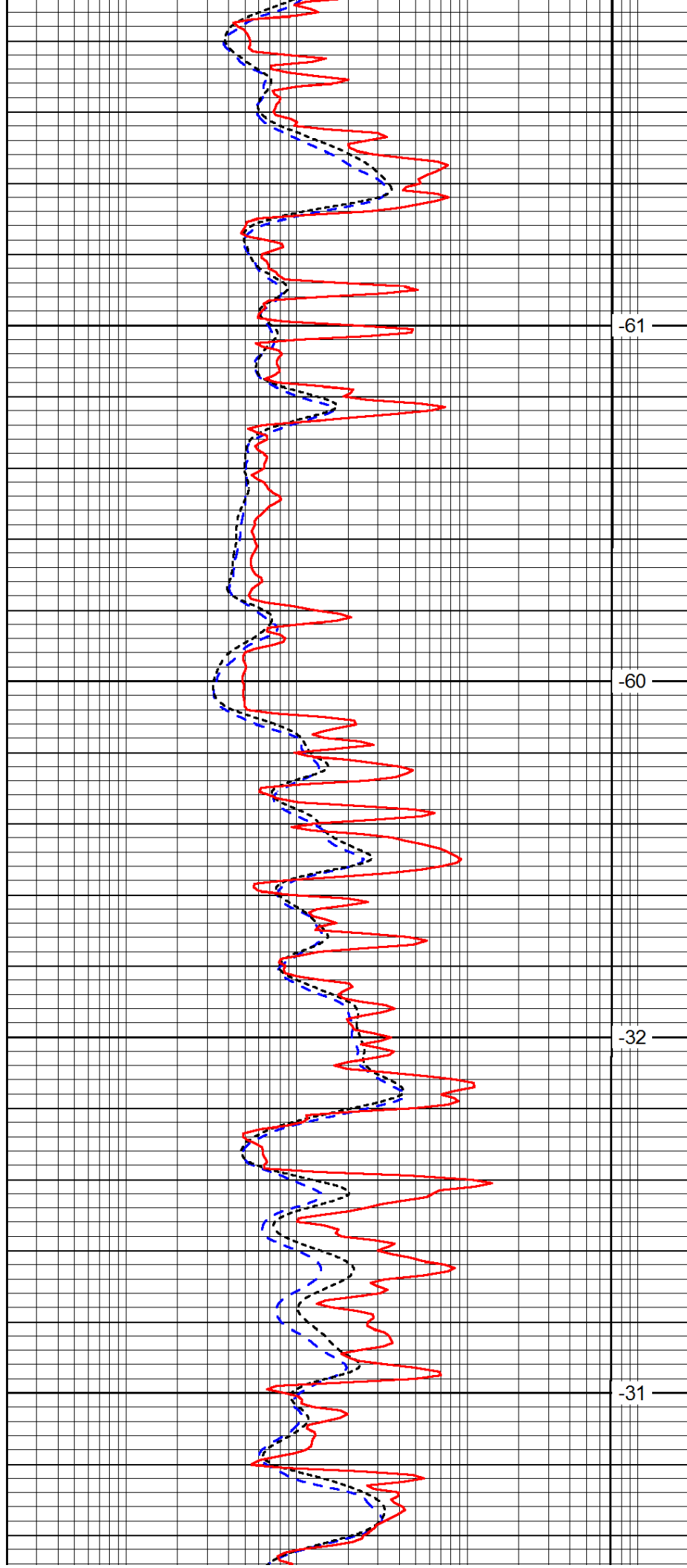


3500

3550

3600

3650

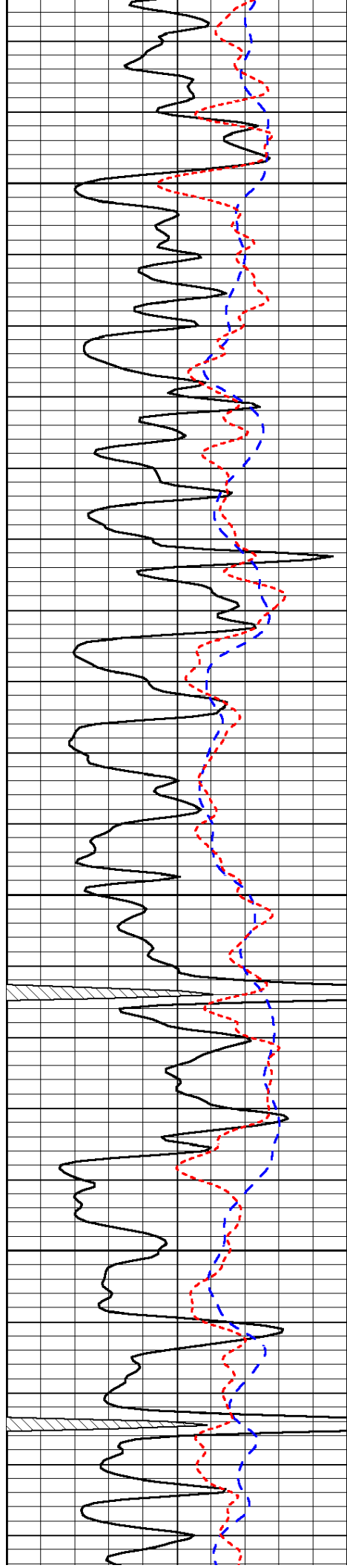


-61

-60

-32

-31

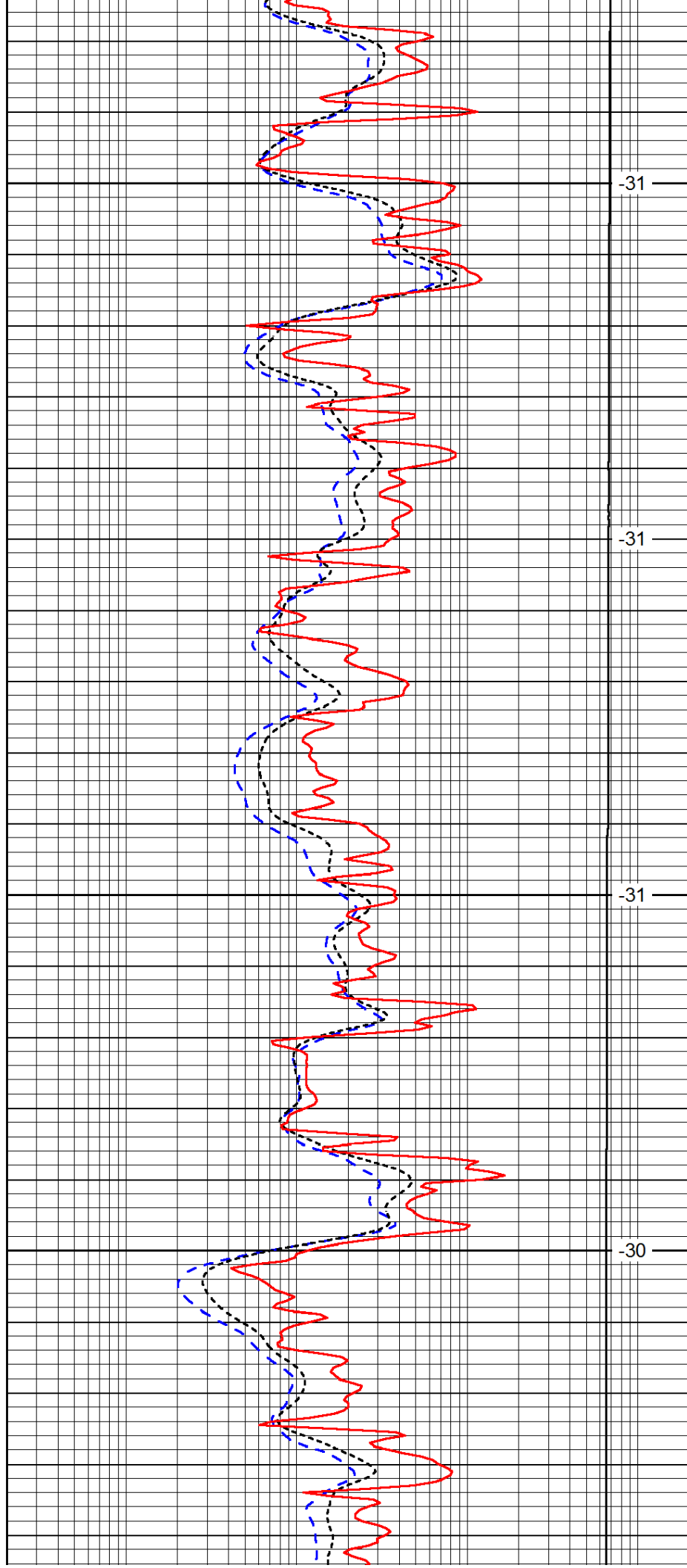


3700

3750

3800

3850

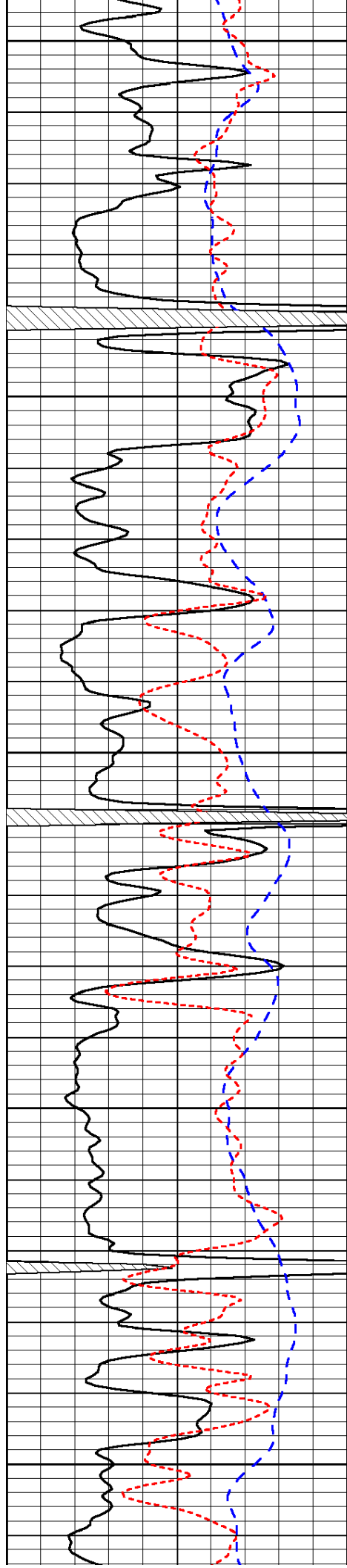


-31

-31

-31

-30



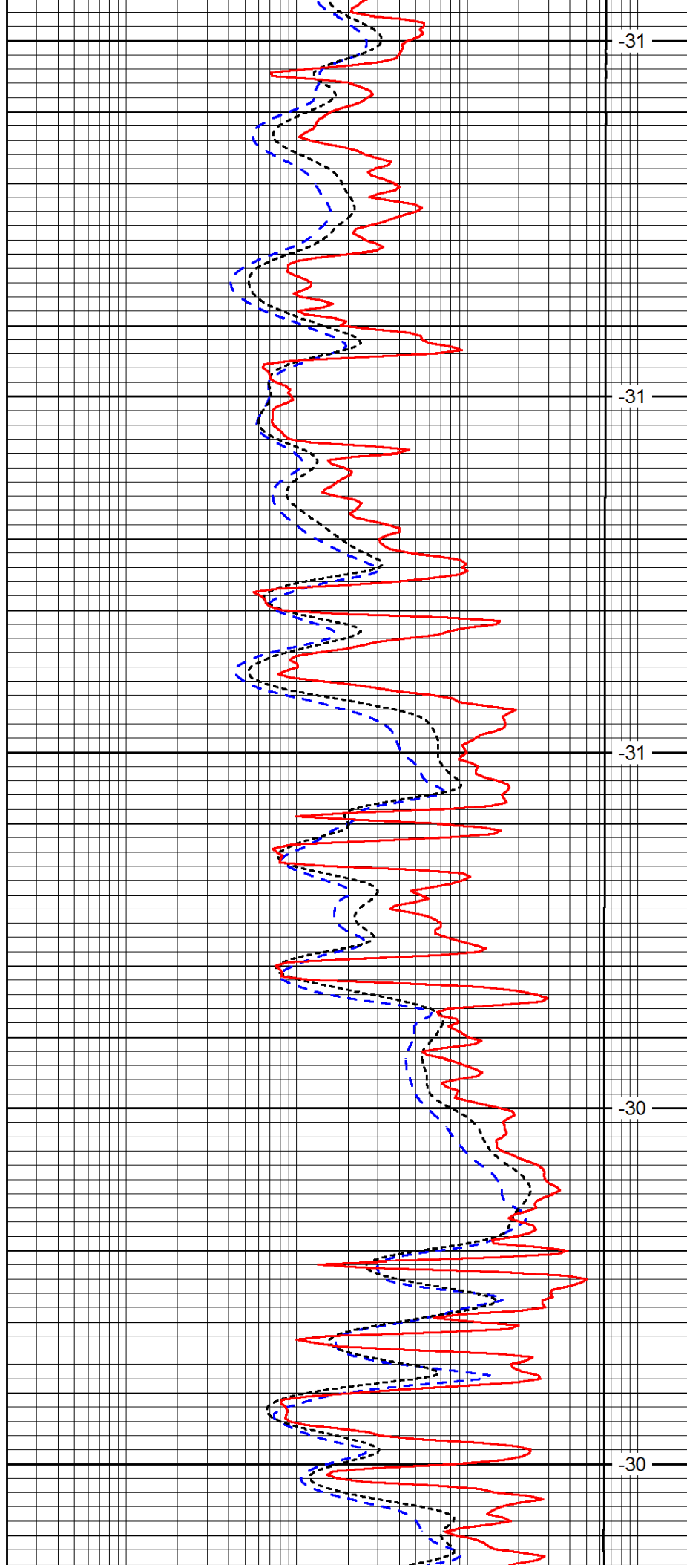
3900

3950

4000

4050

4100



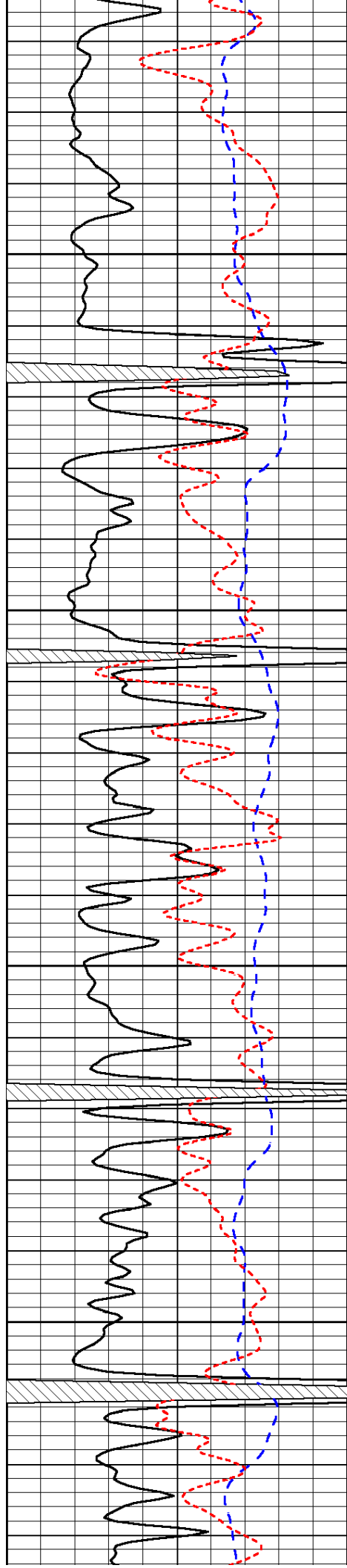
-31

-31

-31

-30

-30

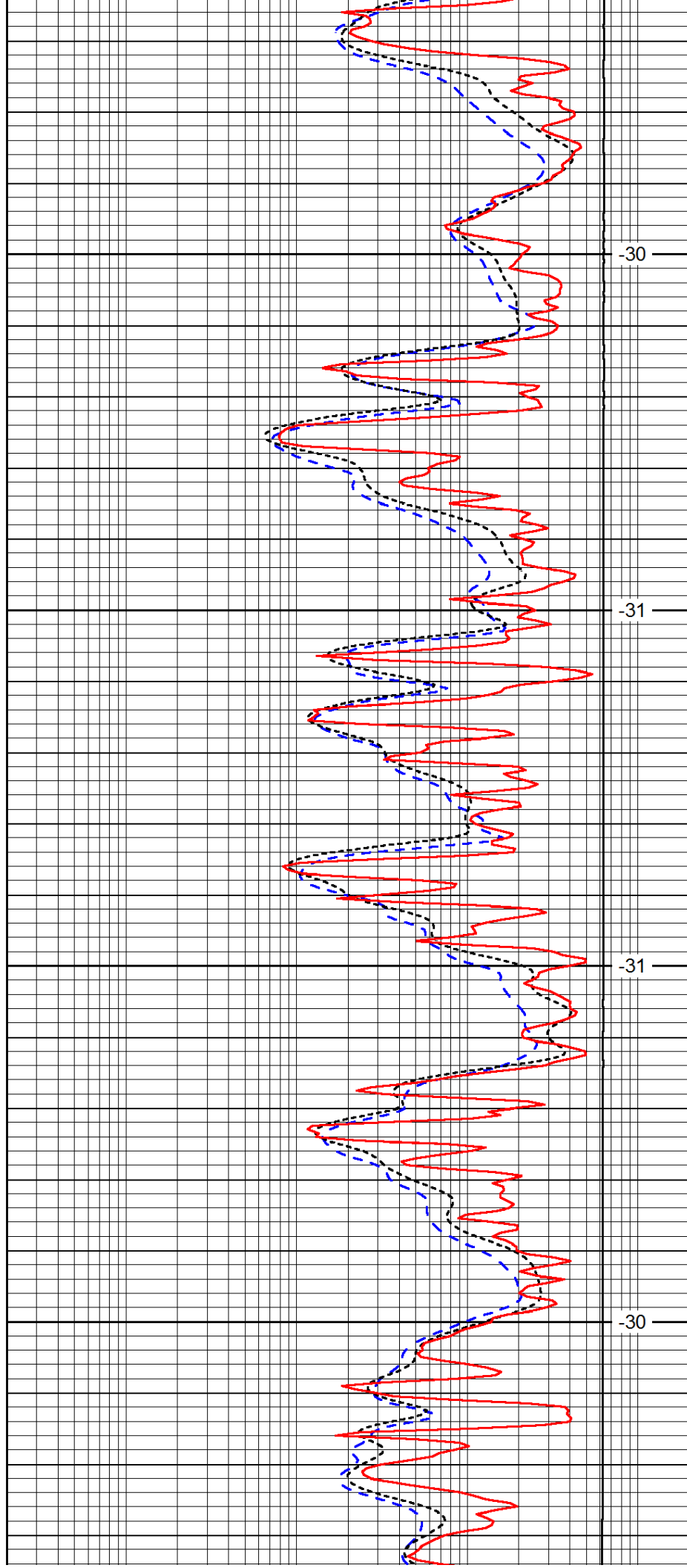


4150

4200

4250

4300

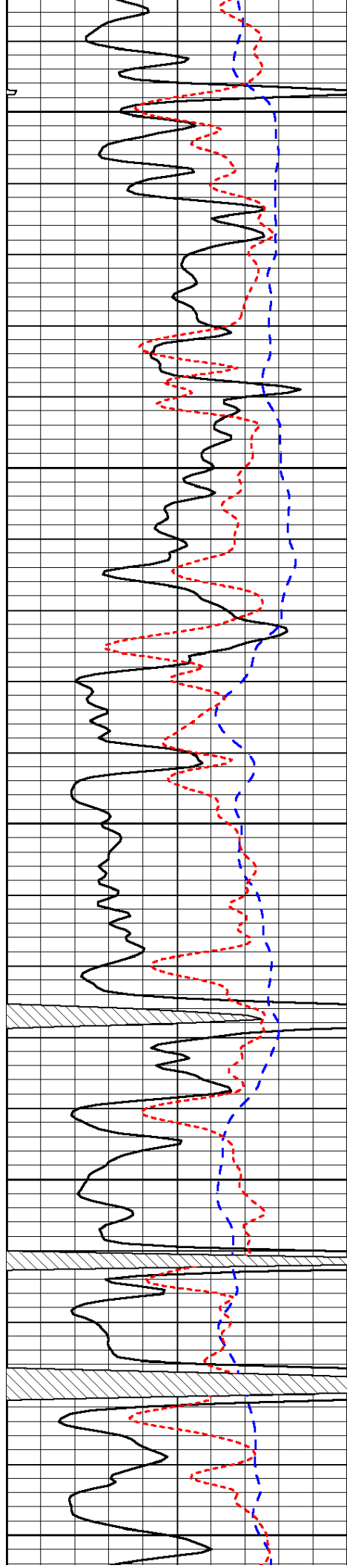


-30

-31

-31

-30



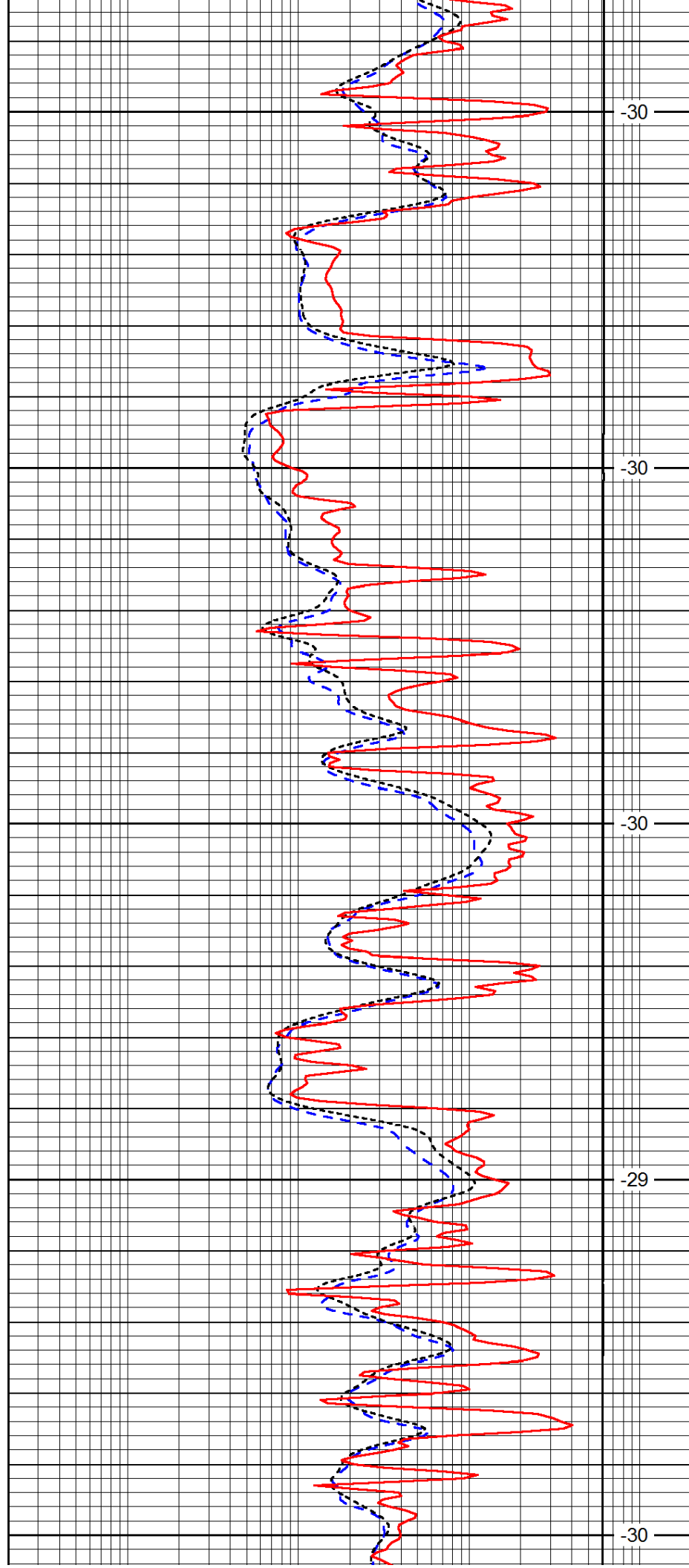
4350

4400

4450

4500

4550



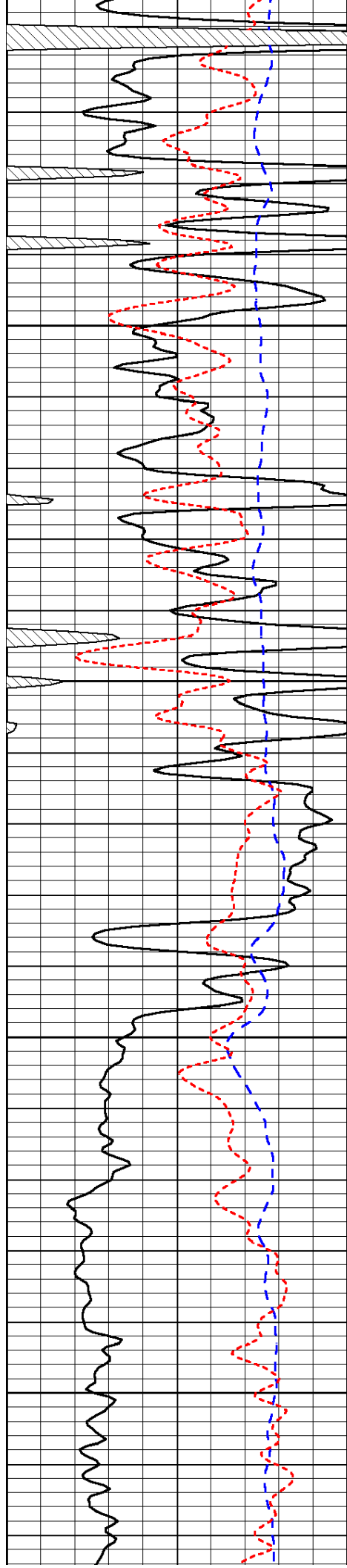
-30

-30

-30

-29

-30

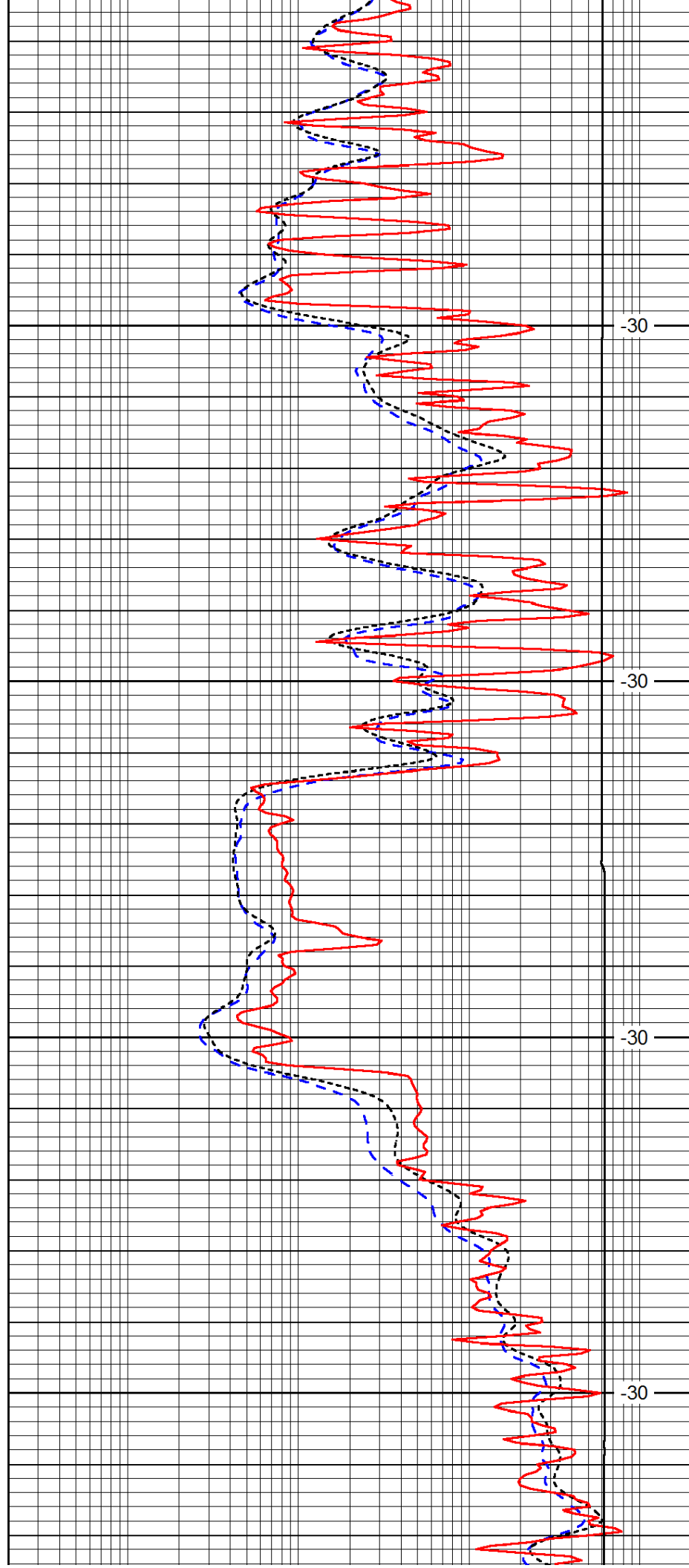


4600

4650

4700

4750

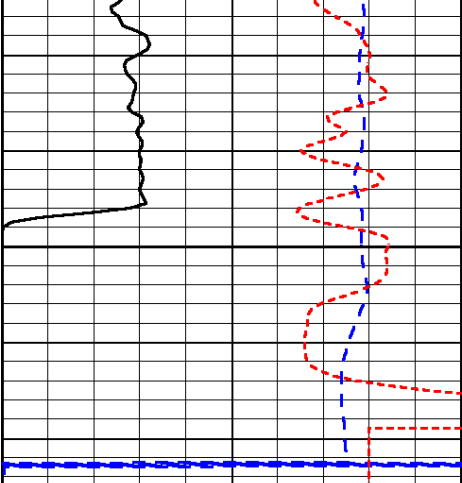


-30

-30

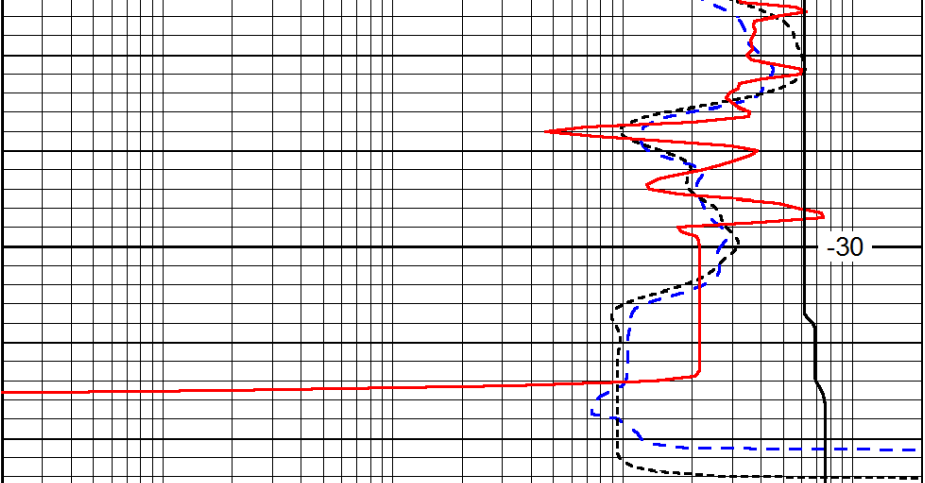
-30

-30



4800

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



-30

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD